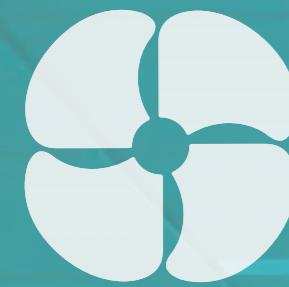


PRODUCT LINEUP: VRF

VENTILATION

For LIGHT COMMERCIAL
& RESIDENTIAL,
COMMERCIAL



LINEUP

| Airflow rate (m ³ /h) | 250 | 350 | 500 | 800 | 1000 |
|--|------------|------------|------------|------------|------------|
| Energy Recovery Ventilator Page 182 | 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 Page 184 | 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 × 2 | Control unit UTY-VDGX | | |

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.

AIRSTAGE™

SPLIT

MULTI SPLIT

VRF

VENTILATION

OPTIONAL PARTS

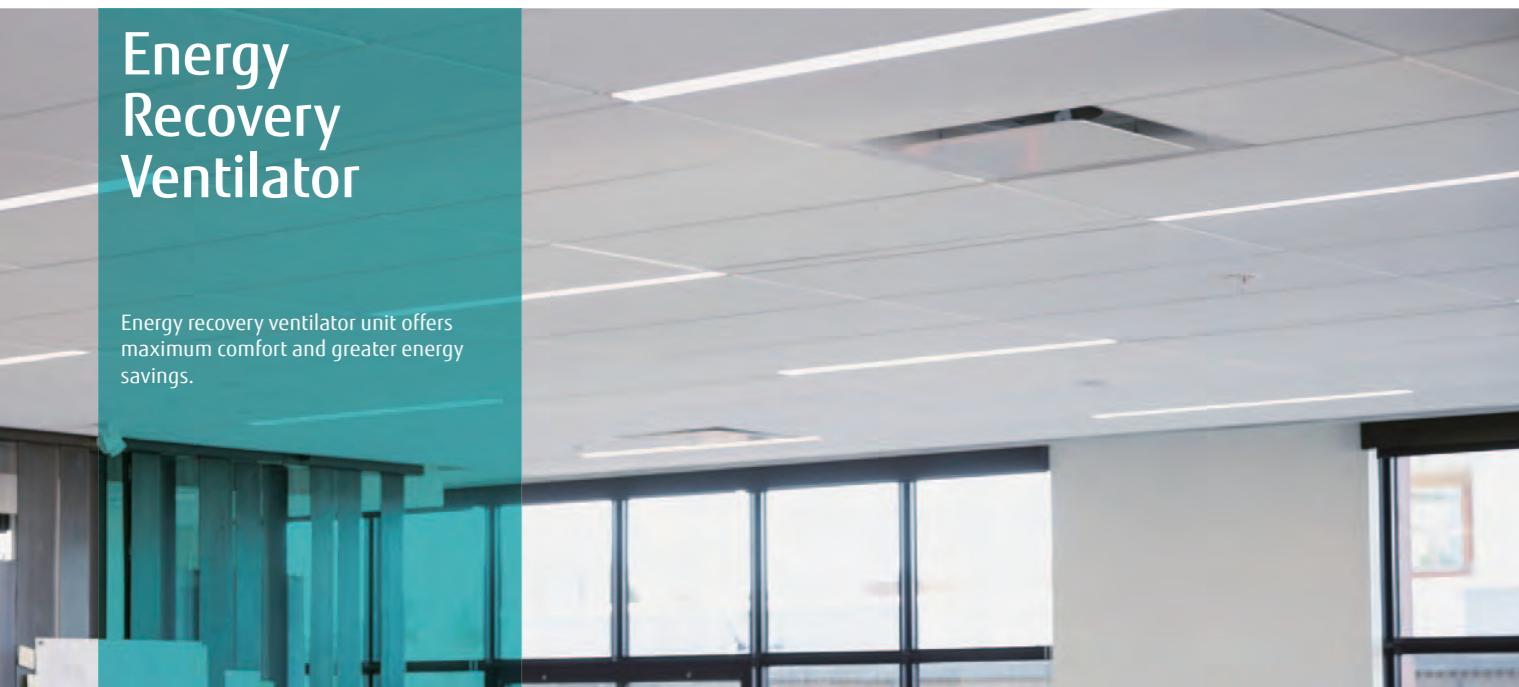
AIR TO WATER

182 Energy Recovery Ventilator

184 DX-Kit for Air Handling Application

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

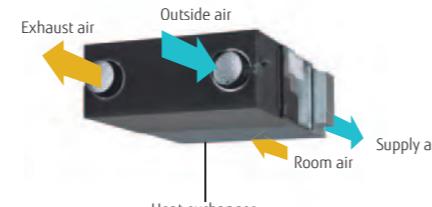
The operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.

Energy efficiency and ecology

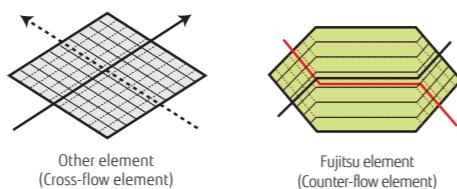
Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.

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.



Adopts a highly efficient counter-flow heat exchange element



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 of buildings.

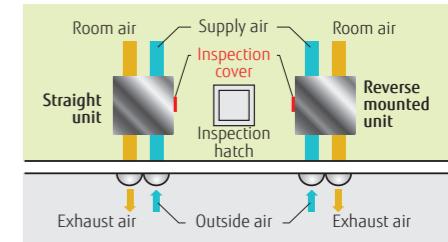
Slim shape and easier installation

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



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



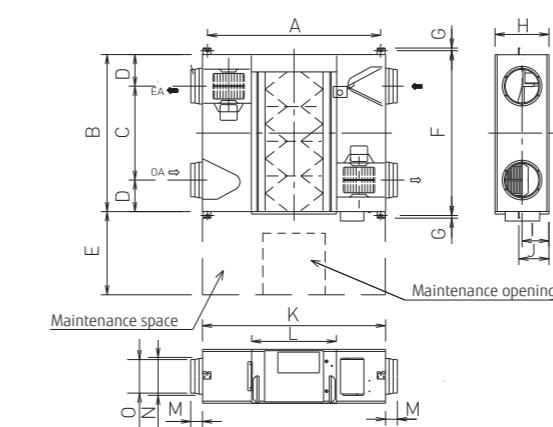
Specifications

| | 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 Air flow rate (Extra high)/High/Low m ³ /h External static pressure (Extra high)/High/Low Pa Temperature Exchange Efficiency (Extra high)/High/Low % Energy Exchange Efficiency Cooling (Extra high)/High/Low % Energy Exchange Efficiency Heat pump (Extra high)/High/Low % Sound pressure level (Extra high)/High/Low dB* | 128 / 123 / 96 250 / 250 / 190 105 / 95 / 45 75 / 75 / 77 63 / 63 / 65 70 / 70 / 72 31.5 / 30.5 / 26.5 | 190 / 185 / 168 350 / 350 / 240 140 / 60 / 45 75 / 75 / 78 66 / 66 / 71 69 / 69 / 73 33.0 / 31.0 / 25.5 | 289 / 225 / 185 500 / 500 / 440 120 / 60 / 35 75 / 75 / 76 62 / 62 / 64 67 / 67 / 69 37.5 / 35.5 / 32.5 | 418 / 378 / 295 800 / 800 / 630 140 / 110 / 55 75 / 75 / 79 65 / 65 / 68 71 / 71 / 74 37.5 / 37.0 / 34.5 | 464 / 432 / 311 1000 / 1000 / 700 105 / 80 / 75 71 / 71 / 76 65 / 65 / 70 71 / 71 / 76 38.5 / 37.5 / 34.5 |
| Normal Ventilation | Input power (Extra high)/High/Low W Air flow rate (Extra high)/High/Low m ³ /h External static pressure (Extra high)/High/Low Pa Sound pressure level (Extra high)/High/Low dB* | 128 / 123 / 96 250 / 250 / 190 105 / 95 / 45 31.5 / 30.5 / 26.5 | 190 / 185 / 168 350 / 350 / 240 140 / 60 / 45 33.0 / 31.0 / 25.5 | 289 / 225 / 185 500 / 500 / 440 120 / 60 / 35 38.5 / 38.0 / 32.5 | 418 / 378 / 295 800 / 800 / 630 140 / 110 / 55 37.5 / 37.0 / 34.5 | 464 / 432 / 311 1000 / 1000 / 700 105 / 80 / 75 40.5 / 39.5 / 36.5 |
| Dimensions | W×D×H mm | 882 × 599 × 270 | 1050 × 804 × 317 | 1090 × 904 × 317 | 1322 × 884 × 388 | 1322 × 1134 × 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 centre of the unit.

Dimensions

(Unit : mm)

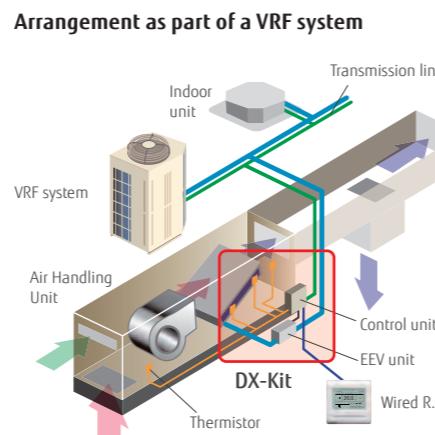
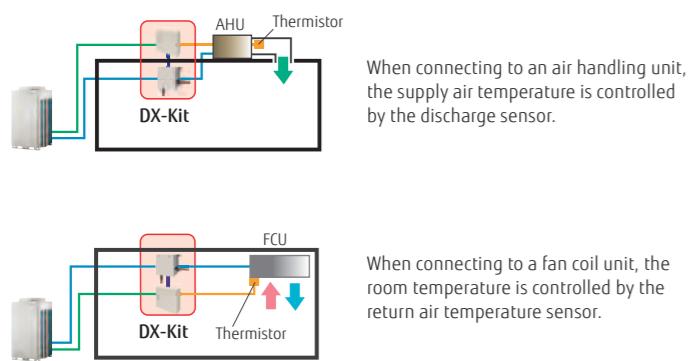


| | UTZ-BD025C | UTZ-BD035C | UTZ-BD050C | UTZ-BD080C | UTZ-BD100B |
|---|------------|------------|------------|------------|------------|
| A | 810 | 978 | 1018 | 1250 | 1250 |
| B | 599 | 804 | 904 | 884 | 1134 |
| C | 315 | 580 | 640 | 428 | 678 |
| D | 142 | 112 | 132 | 228 | 228 |
| E | 600 | 600 | 600 | 600 | 600 |
| F | 655 | 860 | 960 | 940 | 1190 |
| 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 | 1050 | 1090 | 1322 | 1322 |
| L | 414 | 470 | 470 | 612 | 612 |
| M | 95 | 70 | 70 | 85 | 85 |
| N | 0164 | 0164 | 0210 | 0258 | 0258 |
| O | 0144 | 0144 | 0194 | 0242 | 0242 |

DX-Kit for Air Handling Applications

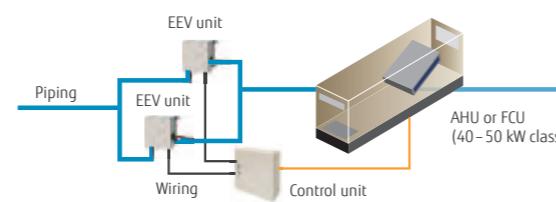
These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

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



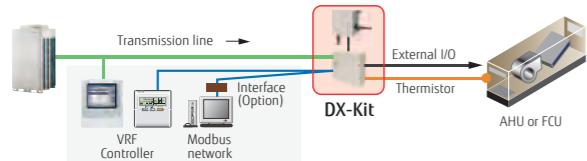
Supports a wide range of capacity classes

- 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

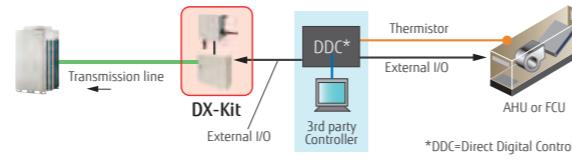


A variety of controls to match the application

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.

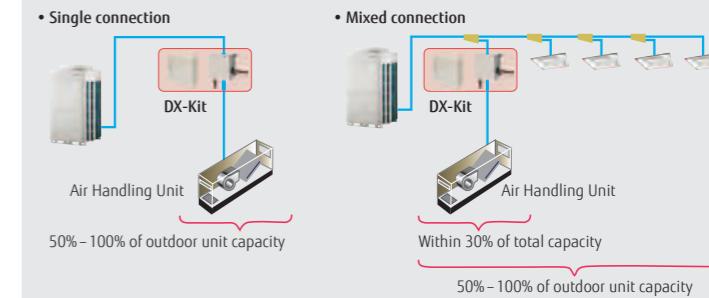
For 2 EEV units connection (option)
Separation Tube: UTP-LX180A



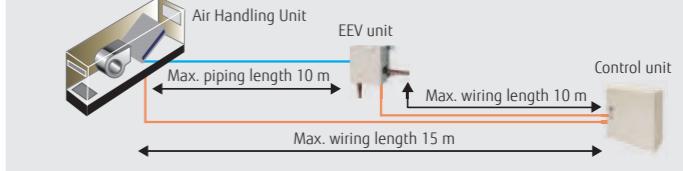
Installation Limitation

- 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



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 kW | 5.6 | 6.3 | 8.0 | 10.0 | 12.5 | 14.0 | 22.4 | 25.0 | 40.0 | 50.4 |
| | Heating kW | 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/IØ/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) | mm | Ø9.53 | Ø12.7 | Ø12.7 | Ø12.7 |
| Dimensions (H × W × D) | mm | 160 × 220 × 90 | | 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].