

Outdoor Air Processing unit

FDU-F



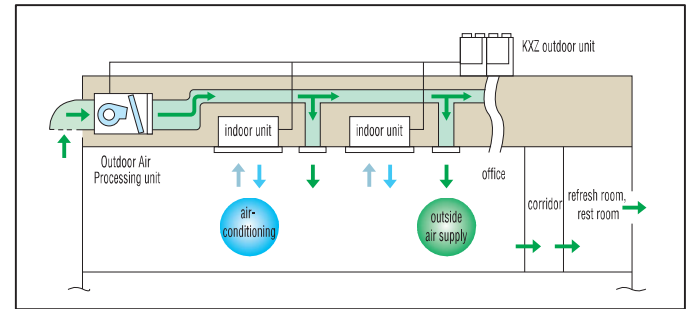
FDU650-2400F

Remote control (option)



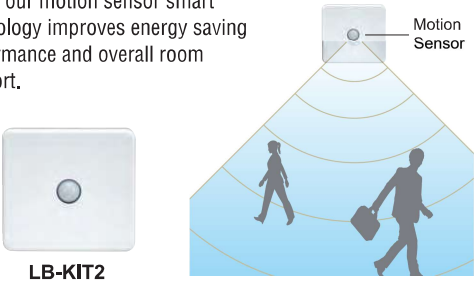
Create a fresher environment with the Outdoor Air Processing feature

Connect your KXZ system to an Outdoor Air Processing unit with one streamlined system. This advanced technology allows you to enjoy a fresh and comfortable air supply.



Motion Sensor (option)

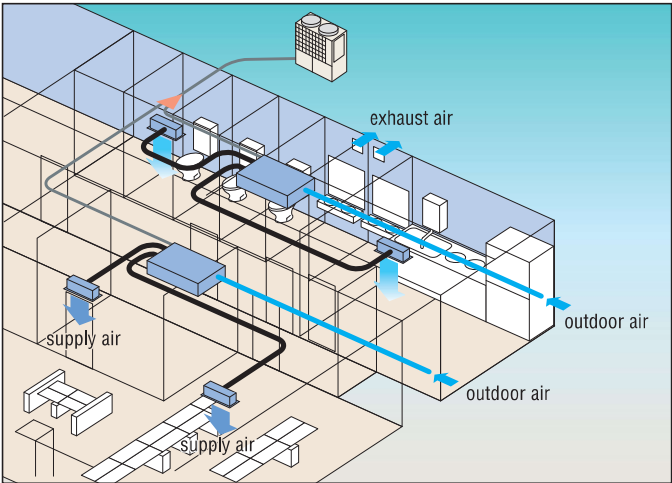
Built into the ceiling or wall plane, our motion sensor smart technology improves energy saving performance and overall room comfort.



Compact design

Compact design at just 280(650, 1100), 379(1800, 2400)mm in height, high static pressure of 200Pa and the industry's lowest noise level can meet various kind of installation locations for offices, refresh rooms, restrooms and kitchens of restaurants etc.

- (1) This unit is the specific unit for processing the outdoor air temperature closer to the room temperature. For conditioning the room temperature a dedicated air-conditioner is required additionally.
- (2) This unit monitors the outdoor air temperature and controls the thermostat's ON/OFF at the setting temperature by the remote controller, which indicates the outdoor air temperature for controlling the thermostat's ON/OFF. When the thermostat is turned OFF, the operation is changed to the fan mode so that unprocessed outdoor air will be blown into the room directly. Therefore place the air outlet port or orient the air outlet direction not to blow air directly to persons in the room, especially in small room such as a restroom and/or sanitary hot water supplying room.
- (3) It is strictly prohibited to monitor the room temperature by switching to the thermistor at the remote controller side and/or the optional remote thermistor. Otherwise dew formation at air outlet port and/or dew dripping may occur during cooling operation due to the lower outdoor air temperature. Therefore keep the remote controller of this unit in place closer to the administrator so as not to be touched freely by the end user.
- (4) Dehumidifying operation with this unit is prohibited.
- (5) When handing over this unit to the end user, make sure to explain sufficiently about the foregoing cautions, the installation place and usage of remote control for this unit and the location of the air outlet.

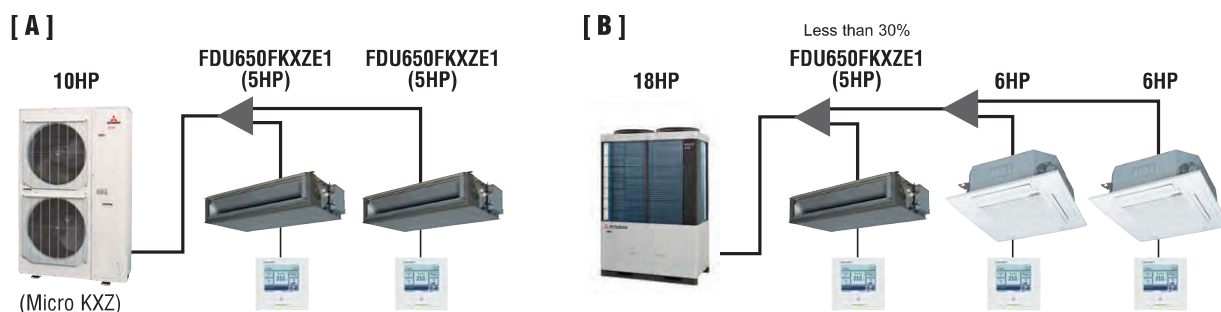


Connectivity with Outdoor units

FDU-F series are connectable to 8-60HP KXZ2 outdoor units, can not be connected to Micro model (4-6HP), KXZ Lite.

Combination with Outdoor units

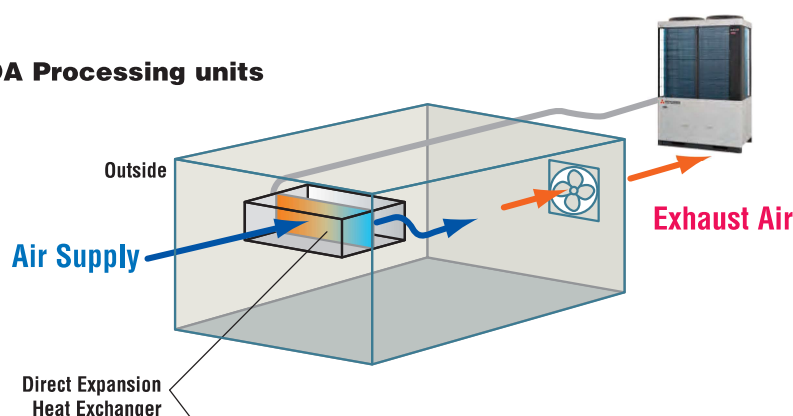
	case	Combination
A	Only OA processing units are connected with outdoor units.	The total capacity of FDU-F is 50-100% of outdoor capacity and max quantity of FDU-F is 2 units.
B	Both of OA processing units and dedicated air-conditioner are connected with outdoor units.	The total capacity of FDU-F and dedicated air-conditioners is 50-100% of outdoor capacity and max quantity of FDU-F should be below 30% of outdoor unit capacity.



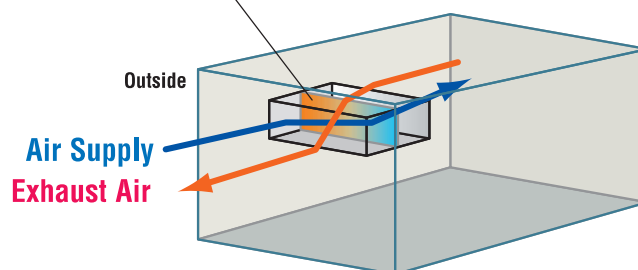
Concept (Difference between FDU-F and SAF)

SAF is the energy recovery ventilation unit which can recover heat energy from exhaust air to supply air and "has no air processing function, but FDU-F is an air processing unit which can treat the supply air closer to room temperature by cooling or heating in connection with KXZ refrigerant system and exhaust air is discharged to outside of the room.

FDU-F OA Processing units



SAF



SPECIFICATIONS

Indoor unit	FDU		650FKXE1	1100FKXE1	1800FKXE1	2400FKXE1
Power source			1 Phase 220-240V, 50Hz			
Nominal capacity	Cooling	kW	9.0	14.0	22.4	28.0
	Heating		6.5	10.5	16.0	21.5
Power consumption	Cooling	W	240-250	350-360	1160-1200	
	Heating					
Sound power level ¹ (Hi)	Cooling	dB(A)	55	62	68	70
	Heating					
Sound pressure level ¹ (Hi)	Cooling	dB(A)	31	37	42	45
	Heating					
Exterior dimensions (HxWxD)		mm	280x950x635	280x1368x740	379x1600x893	
Net weight		kg	34	54	89	
Air flow (Hi)	Cooling	m³/min	11	18	30	40
	Heating					
Static pressure		Pa	200(at Hi Air flow)			
Outside air intake			Possible			
Refrigerant piping size	Liquid	mm (in)	ø9.52(3/8")(Flare)		ø9.52(3/8")(Brazing)	
	Gas		ø15.88(5/8")(Flare)		ø19.05(3/4")(Brazing) ø22.22(7/8")(Brazing)	
Air filter			Procure locally			

1. The data are measured at 33°CDB 28°CWB (68%RH) during cooling and 0°CDB-2.9°CWB (50%RH) during heating (no frost).

2. Temperature range of outdoor air must be 20-40°CDB (32°CWB) during cooling and 0-24°CDB during heating.

3. Sound level indicates the value in an anechoic chamber. During operation these value are somewhat higher due to ambient conditions.

4. The factory E.S.P. setting is set within the range of 10 - 120Pa. If SW8-4 is turned to "ON", E.S.P. setting range can be changed to 10 - 200 Pa. (with RC-EX3D and RC-E5 only)