

HEAT PUMP KXZ



MICRO COMPACT

CONNECT UP TO 10 INDOOR UNITS/150% CAPACITY

FDC 121 KXZEN1/ZES1 12.1 kW 1-Phase/3-Phase

FDC 140 KXZEN1/ZES1 14.0 kW 1-Phase/3-Phase

FDC 155 KXZEN1/ZES1 15.5 kW 1-Phase/3-Phase

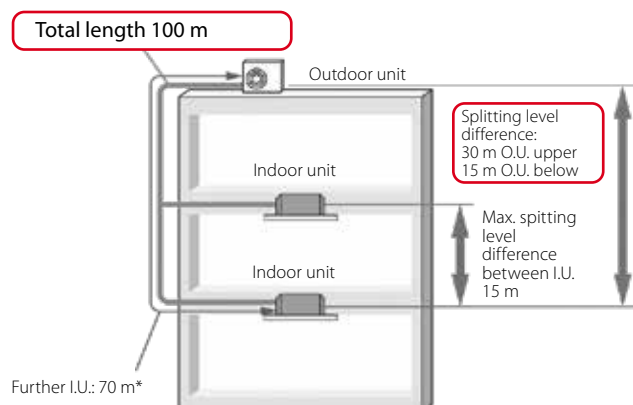
FEATURES

- Maximum energy efficiency COP 3.92 (4HP)
- Rotary DC Inverter compressor on all units
- DC Inverter fan motors
- 4 sound levels in Silent mode
- New PCB cooling system: a refrigerant pipe branch passes to the base of the PCB to prevent overheating

Can connect 1.5 kW indoor units

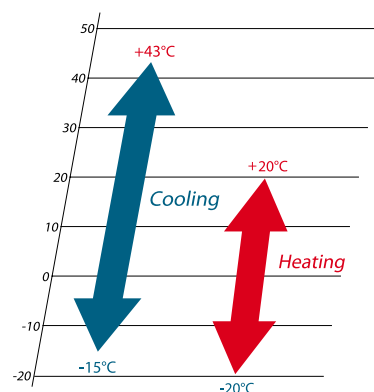
- New system for managing indoor unit priorities
- "Pump down" safety function: to identify any gas leaks inside the room (third-party sensor) and start up the refrigerant recall procedure by the outdoor unit, present inside the system

INSTALLATION DIAGRAM



* The total length of piping, liquid side $\phi 9.52$ mm (3/8") should be 50 m or less.

OPERATING RANGE



INCREASED NB.. OF CONNECTABLE I.U.

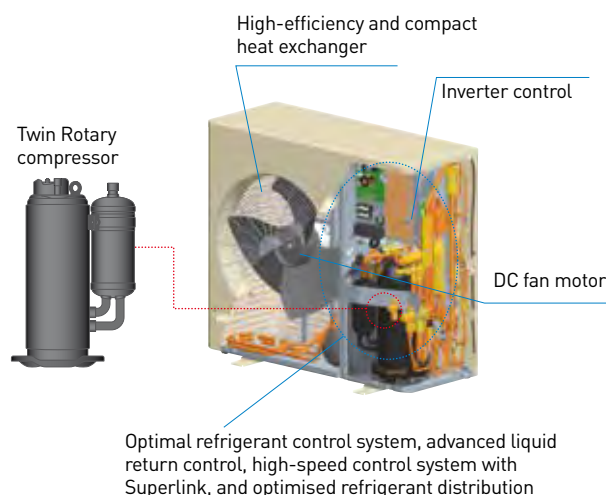


	KXE6	NEW KXZ
4HP	6 units	→ 8 units
5HP	8 units	→ 10 units ¹
6HP	8 units	→ 10 units ²

1: max capacity ≤100% with 9 or 10 connected units

2: max capacity ≤100% with 9 or 10 connected units

HIGH EFFICIENCY OF OUTDOOR UNITS 4~6HP



MICRO COMPACT

4-6HP (12.1~15.5 kW)



REFRIGERANT CONNECTIONS

HP		4	5	6
Liquid side	Farthest I.U. ≦ <70 m	ø 9.52 (3/8")		
Gas side		ø 15.88 (5/8")		

BRANCH PIPES

DIS-22-1B
DIS-180-1B

MANIFOLDS

HEAD4-22-1B
HEAD6-180-1B

Outdoor unit model			FDC 121 KXZEN1	FDC 140 KXZEN1	FDC 155 KXZEN1	FDC 121 KXZES1	FDC 140 KXZES1	FDC 155 KXZES1
Power class		HP	4	5	6	4	5	6
Nominal data								
Rated capacity	Cooling	kW	12.10	14.00	15.50	12.10	14.00	15.50
Rated power input		kW	3.16	3.96	5.20	3.16	3.96	5.20
Rated energy efficiency coefficient		EER ¹	3.83	3.54	2.98	3.83	3.54	2.98
Rated capacity	Heating	kW	12.10	14.00	15.50	12.10	14.00	15.50
Rated power input		kW	3.09	3.66	4.28	3.09	3.66	4.28
Rated energy performance coefficient		COP ¹	3.92	3.83	3.62	3.92	3.83	3.62
Seasonal data								
Seasonal energy efficiency index	Cooling	SEER ²	8.15	7.73	7.21	8.15	7.73	7.21
	Heating	SCOP ²	4.63	4.59	4.55	4.63	4.59	4.55
Electrical data								
Power supply		Ph-V-Hz	1Ph-220~240V-50Hz			3Ph-380~415V-50Hz		
Rated current	Cooling	A	15.30	19.60	25.70	5.20	6.50	8.60
	Heating	A	15.20	18.30	21.40	5.10	6.10	7.10
Maximum current		A	28.00	28.00	28.00	13.50	13.50	13.50
Refrigerant circuit data								
Refrigerant ³		type (GWP)	R410A (2088)					
Q.ty of refrigerant pre-charge (tons of CO2 equivalent)		kg	5 (10.44)	5 (10.44)	5 (10.44)	5 (10.44)	5 (10.44)	5 (10.44)
Piping diameter	Liquid	inch (mm)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
	Gas		5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)
Product specifications								
Dimensions	HxLxD	mm	845x970x370	845x970x370	845x970x370	845x970x370	845x970x370	845x970x370
Net weight		kg	85	85	85	87	87	87
Sound power level	Max	dB(A)	72	72	74	72	72	74
Sound pressure level	Max	dB(A)	56	57	57	56	57	57
Volume of air treated	Standard	m³/h	4500	4500	4500	4500	4500	4500
Fan static pressure	Max	Pa	-	-	-	-	-	-
Operating range (outdoor temperature)	Cooling	°C	-15~43	-15~43	-15~43	-15~43	-15~43	-15~43
	Heating	°C	-20~20	-20~20	-20~20	-20~20	-20~20	-20~20
Connectable indoor units	Min ~ Max	nb.	1 ~ 8	1 ~ 10 ⁴	1 ~ 10 ⁴	1 ~ 8	1 ~ 10 ⁴	1 ~ 10 ⁴
	Capacity	%	80 ~ 150	80 ~ 150	80 ~ 150	80 ~ 150	80 ~ 150	80 ~ 150

1. Value measured according to the harmonised standard EN14511. 2. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825. 3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 4. With limitations on maximum connectivity.