

KXZX2 Hi-COP VRF-T MODULAR SYSTEM

Record efficiency in heating and cooling

Greater energy efficiency with KXZX2 heat pump systems,
in any combination of outdoor units.



10HP
(28.0 kW)



12~14HP
(33.5~40.0 kW)

HEAT PUMP - MODULAR OUTDOOR UNITS



KXZX2 Hi-COP

Combinations 20~40HP (56.0~113.5 kW)

CONNECT UP TO 80 INDOOR UNITS/160% (FDC 1000~1120 KXZE2 130%) CAPACITY

FDC 560 KXZX2 (FDC 280+FDC 280)	56,0 kW
FDC 850 KXZX2 (FDC 280+FDC 280+FDC 280)	84,0 kW
FDC 900 KXZX2 (FDC 280+FDC 280+FDC 335)	89,5 kW
FDC 950 KXZX2 (FDC 280+FDC 335+FDC 335)	95,0 kW
FDC 1000 KXZX2 (FDC 335+FDC 335+FDC 335)	100,5 kW
FDC 1060 KXZX2 (FDC 280+FDC 335+FDC 400)	107,0 kW
FDC 1120 KXZX2 (FDC 335+FDC 400+FDC 400)	113,5 kW

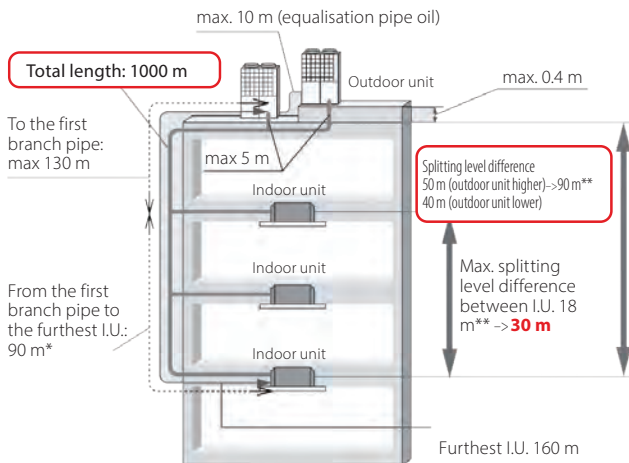
Hi-COP FEATURES

- High efficiency
- Reduced consumption
- High energy saving

FEATURES

- Maximum energy efficiency: COP 4.32 (40HP) and EER 3.86 (20HP)
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

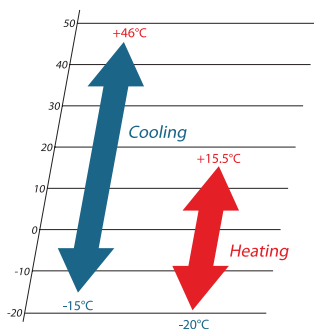
INSTALLATION DIAGRAM



* With difference of length between the farthest indoor unit and the nearest one from the first branch pipe <40 m. (MAX 85 m).

** Comply with installation conditions. For details, refer to the Technical Manual.

OPERATING RANGE



20HP
(56.0 kW)



30~36HP
(84.0~100.5 kW)



38HP
(107.0 kW)



40HP
(113.5 kW)

HEAT PUMP - MODULAR OUTDOOR UNITS

KXZX2 Hi-COP

COMBINATIONS

Outdoor unit model			FDC 560 KXZE2	FDC 850 KXZE2	FDC 900 KXZE2
Combinations			FDC 280 KXZE2	FDC 280 KXZE2	FDC 280 KXZE2
Power class			HP	30	32
Rated capacity	Cooling	kW	56.00	84.00	89.50
Rated power input		kW	14.51	21.76	23.49
Rated energy efficiency coefficient		EER ¹	3.86	3.86	3.81
Rated capacity	Heating	kW	63.00	94.50	100.50
Rated power input		kW	14.82	22.23	23.85
Rated energy performance coefficient		COP ¹	4.25	4.25	4.21
Seasonal data					
Seasonal energy efficiency index	Cooling	SEER ⁶	7.30	7.30	7.38
Seasonal performance coefficient	Heating	SCOP ⁶	5.25	5.25	5.02
Seasonal energy efficiency (ηs)		%	206.90	206.90	197.80
Electrical data					
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz		
Rated current	Cooling	A	24.00	36.00	38.70
	Heating	A	24.40	36.60	39.20
Maximum current		A	40.20	60.30	60.30
Refrigerant circuit data					
Refrigerant ²		Type (GWP)	R410A (2088)		
Qty of refrigerant pre-charge ³ (tons of CO ₂ equivalent)		kg	22 (45.936)	33 (68.904)	33 (68.904)
Piping diameter ⁴	Liquid	inch (mm)	1/2" (12.7)	5/8" (15.88)	5/8" (15.88)
	Gas		1-1/8" (28.58)	1-1/4" (31.75)	1-1/4" (31.75)
	Oil balancing		3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications					
Dimensions	HxLxD	mm	1697x2700x720	1697x4050x720	1697x4050x720
Net weight		kg	576	864	864
Connectable indoor units ⁵	Min ~ Max	nb.	2 ~ 59	3 ~ 80	3 ~ 80
	Capacity	%	80 ~ 160	80 ~ 160	80 ~ 160

Outdoor unit model			FDC 950 KXZE2	FDC 1000 KXZE2	FDC 1060 KXZE2	FDC 1120 KXZE2
Combinations			FDC 280 KXZE2	FDC 335 KXZE2	FDC 335 KXZE2	FDC 335 KXZE2
Power class			HP	36	38	40
Rated capacity	Cooling	kW	95.00	100.50	107.00	113.50
Rated power input		kW	25.22	26.94	28.94	30.94
Rated energy efficiency coefficient		EER ¹	3.77	3.73	3.70	3.67
Rated capacity	Heating	kW	106.50	112.50	120.00	127.50
Rated power input		kW	25.47	27.09	28.29	29.48
Rated energy performance coefficient		COP ¹	4.18	4.15	4.24	4.32
Seasonal data						
Seasonal energy efficiency index	Cooling	SEER ⁶	7.46	7.54	7.34	7.21
Seasonal performance coefficient	Heating	SCOP ⁶	4.84	4.68	4.75	4.80
Seasonal energy efficiency (ηs)		%	190.40	184.30	187.10	189.00
Electrical data						
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz			
Rated current	Cooling	A	41.40	44.10	47.00	49.90
	Heating	A	41.80	44.40	46.30	48.20
Maximum current		A	60.30	60.30	72.20	84.10
Refrigerant circuit data						
Refrigerant ²		Type (GWP)	R410A (2088)			
Qty of refrigerant pre-charge ³ (tons of CO ₂ equivalent)		kg	33 (68.904)	33 (68.904)	33.5 (69.948)	34 (70.992)
Piping diameter ⁴	Liquid	inch (mm)	5/8" (15.88)	5/8" (15.88)	3/4" (19.05)	3/4" (19.05)
	Gas		1-1/4" (31.75)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)
	Oil balancing		3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications						
Dimensions	HxLxD	mm	1697x4050x720	1697x4050x720	2052x4050x720	2052x4050x720
Net weight		kg	864	864	908	952
Connectable indoor units ⁵	Min ~ Max	nb.	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80
	Capacity	%	80 ~ 160	80 ~ 130	80 ~ 130	80 ~ 130

1. Value measured according to the harmonised standard EN 14511. 2. 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. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%. 6. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825