

KXZ MICRO SMART



Heat pump - outdoor units

CONNECT UP TO 8 INDOOR UNITS/120% CAPACITY

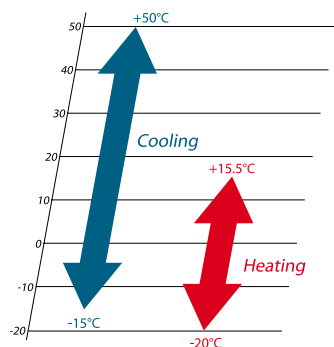
FDC 224 KXZPE1
22.4 kW three-phase
FDC 280 KXZPE1
28.0 kW three-phase



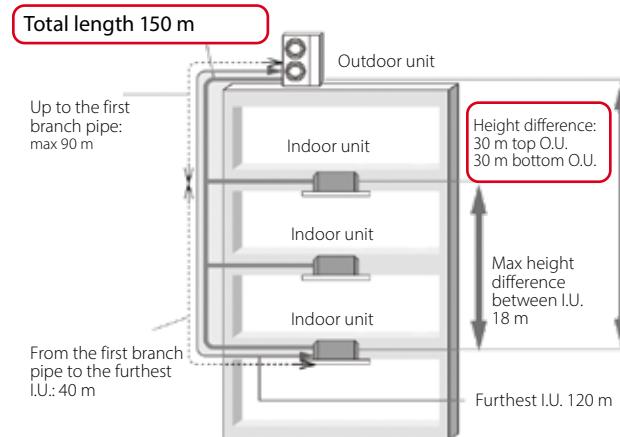
CHARACTERISTICS

- Maximum energy efficiency COP 4.67 (8 HP)
- Only DC Inverter compressors
- High split: up to 150 m in total and with a maximum distance between the O.U. and the furthest I.U. of 120 m
- Compressor speed control

OPERATING RANGE



INSTALLATION DIAGRAM



8~10HP (22.4~28.0 kW)

REFRIGERANT CONNECTIONS

HP		8	10
Liquid side	Furthest I.U. =<90 m	ø9.52	
Gas side		ø19.05	ø22.22
Liquid side	Furthest I.U. => 90 m	ø 12.7	
Gas side		ø22.22	ø25.4/ø28.58

BRANCH PIPES



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



DIS-371-1B

MANIFOLDS



HEAD4-22-1B
HEAD6-180-1B
HEAD8-371-2B

Models		FDC 224 KXZPE1	FDC 280 KXZPE1
Nominal Cool. capacity	kW	22.40	28.00
Cool. power consumption	kW	5.60	7.87
Seasonal energy efficiency index in Cool.	SEER ²	6.65	6.68
Rated energy efficiency coefficient in Cool.	EER ³	4.00	3.56
Nominal Heat. capacity	kW	22.40	28.00
Heat. power consumption	kW	4.80	6.47
Seasonal energy efficiency index in Heat.	SCOP ²	4.34	4.50
Rated energy efficiency coefficient in Heat.	COP ³	4.67	4.33
Power		Three-phase 380-415V 50Hz	
Rated current in Cool.	A	9.20	12.90
Rated current in Heat.	A	7.90	10.60
Sound level	dB(A)	60	63
External dimensions (HxLxD)	mm	1505x970x370	1505x970x370
Exterior appearance (Munsell colour)		Stucco white (4.2Y7.5 / 1.16) equivalent	Stucco white (4.2Y7.5 / 1.16) equivalent
Net weight	kg	165	165
Refrigerant circuit/Compressor type and qty.		GTC5150NC40FK x 1	GTC5150NC40FK x 1
Starting method		Direct, in line	Direct, in line
Indoor System Units	Number of connectable I.U.	from 1 to 8	from 1 to 8
	Total connectable capacity	112 ~ 268	140 ~ 336
Crankcase heater	W	33*1	33*1
Refrigerant circuit/Heat exchanger		Pipes finned with Blue fin treatment and grooved internally	
Refrigerant control		Electronic expansion valve	
Refrigerant/GWP ⁴		R410A/2088	
Quantity	kg	8.9	8.9
Tons of CO ₂ equivalent		18.58	18.58
Refrigerant oil	l	1.45 (M-MA32R)	1.45 (M-MA32R)
Defrost control		Micro - computerised	Micro - computerised
Air treatment/Fan type and quantity		Axial fan x 2	Axial fan x 2
Motor	W	86 x 2	86 x 2
Starting method		Direct	Direct
Air flow (Standard)	m ³ /h	7800	8700
Available static pressure	Pa	Max 35	
Shock and vibration absorption		Rubber vibration absorber (for compressor)	
Safety devices		Compressor overheating protection/overcurrent/power transistor overheating protection/abnormal high pressure protection	
Diameter refrigerant pipes	mm (inch)	Liquid side ø 3/8" (9.52)	
		Gas side: ø19.05 (3/4") (ø22.22 (7/8"))	Gas side: ø22.22 (7/8") (ø25.4 (1")) (ø28.58 (1 1/8"))
Joining method		Gas side: brazing / Liquid side: flare	
Condensate drain		Drain holes: ø20 x 3 pcs.	
Piping insulation		Necessary (on both sides, liquid and gas)	
Accessories			

² EU Regulation No.2281/2016 - Value measured according to harmonised standard EN14825. ³ Value measured according to harmonised standard EN14511. ⁴ 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.