

KXZ MICRO SMART



Heat pump - outdoor units

CONNECT UP TO 8 INDOOR UNITS/120% CAPACITY

FDC 224 KXZPE1 22.4 kW three-phase

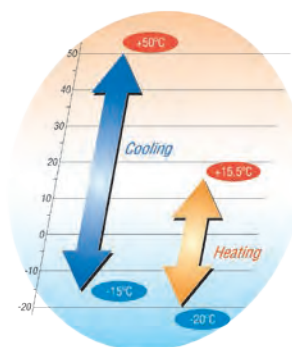
FDC 280 KXZPE1 28.0 kW three-phase



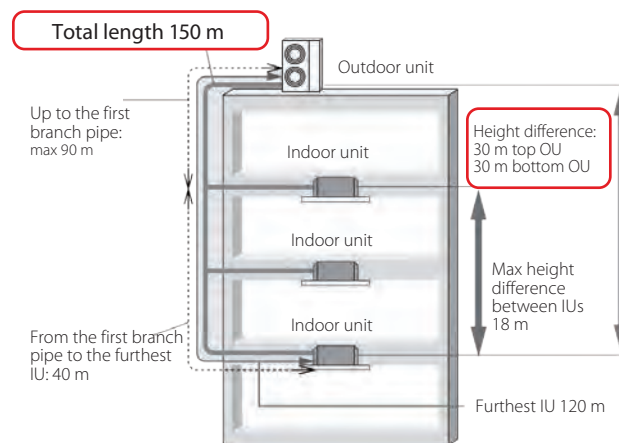
CHARACTERISTICS

- 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 OU and the furthest IU 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 IU =<90 m	ø 9.52	
Gas side		ø 19.05	ø 22.22
Liquid side	Furthest IU => 90 m	ø 12.7	
Gas side		ø 22.22	ø 28.58

BRANCH PIPES



DIS-22-11
DIS-180-11

MANIFOLDS



HEAD4-22-11
HEAD6-180-11

Models		FDC224KXZPE1	FDC280KXZPE1
Nominal Cool. capacity	kW	22.40	28.00
Cool. power consumption	kW	5.60	7.87
Seasonal energy efficiency index in Cool.	SEER2	6.65	6.68
Rated energy efficiency coefficient in Cool.	EER3	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.	SCOP2	4.34	4.50
Rated energy efficiency coefficient in Heat.	COP3	4.67	4.33
Power		Three-phase 380-415V 50Hz	
Rated current in Cool.	A	9.2	12.9
Rated current in Heat.	A	7.9	10.6
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.		GTCS150NC40FK×1	GTCS150NC40FK×1
Starting method		Direct, in line	Direct, in line
Indoor System Units	Number of connectable IU	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	Pipes finned with Blue fin treatment and grooved internally
Refrigerant control		Electronic expansion valve	
Refrigerant/GWP4		R410A/2088	
Quantity	kg	8.9	8.9
Tons of CO2 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	86×2	86×2
Starting method		Direct	Direct
Air flow (Standard)	m³/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 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.