

**HEAT PUMP KXZ**



# MICRO SMART

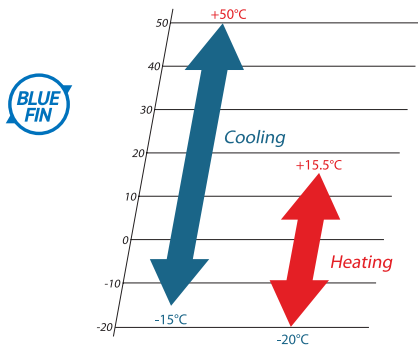
CONNECT UP TO 8 INDOOR UNITS/120% CAPACITY

FDC 224 KXZPE1  
22.4 kW 3-Phase  
FDC 280 KXZPE1  
28.0 kW 3-Phase

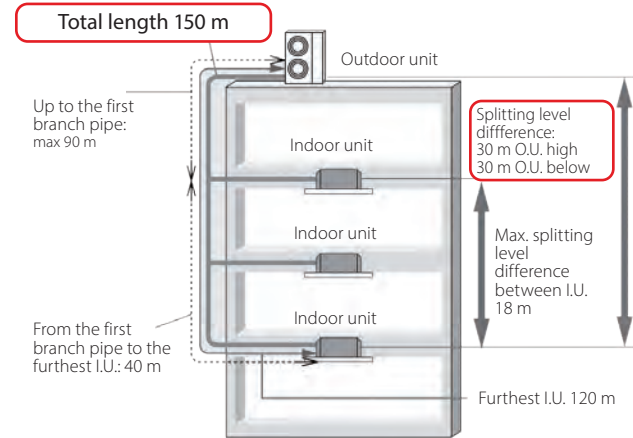
**FEATURES**

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

**OPERATING RANGE**



**INSTALLATION DIAGRAM**

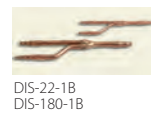


8~10HP (22.4~28.0 kW)

**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**



**MANIFOLDS**



Outdoor unit model			FDC 224 KXZPE1	FDC 280 KXZPE1
Power class	HP		8	10
<b>Nominal data</b>				
Rated capacity	Cooling	kW	22.40	28.00
Rated power input		kW	5.60	7.87
Rated energy efficiency coefficient		EER <sup>1</sup>	4.00	3.56
Rated capacity	Heating	kW	22.40	28.00
Rated power input		kW	4.80	6.47
Rated energy performance coefficient		COP <sup>1</sup>	4.67	4.33
<b>Seasonal data</b>				
Seasonal energy efficiency index	Cooling	SEER <sup>2</sup>	6.65	6.68
Seasonal performance coefficient	Heating	SCOP <sup>2</sup>	4.34	4.50
Seasonal energy efficiency (ηs)		%	170.60	177.00
<b>Electrical data</b>				
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz	
Rated current	Cooling	A	9.20	12.90
	Heating	A	7.90	10.50
Maximum current		A	21.00	22.00
<b>Refrigerant circuit data</b>				
Refrigerant <sup>3</sup>		type (GWP)	R410A (2088)	
Qty. of refrigerant pre-charge (tons of CO <sub>2</sub> equivalent)		kg	8.9 (18.583)	8.9 (18.583)
Piping diameter	Liquid	inch	3/8" (9.52)	3/8" (9.52)
	Gas	(mm)	3/4" (19.05)	7/8" (22.22)
<b>Product specifications</b>				
Dimensions	HxLxD	mm	1505x970x370	1505x970x370
Net weight		kg	165	165
Sound power level	Max	dB(A)	73	76
Sound pressure level	Max	dB(A)	60	63
Volume of air treated	Standard	m <sup>3</sup> /h	7800	8100
Fan static pressure	Max	Pa	35	35
Operating range (outdoor temperature)	Cooling	°C	-15~50	-15~50
	Heating	°C	-20~15.5	-20~15.5
Connectable indoor units	Min ~ Max	nb.	1 ~ 8	1 ~ 8
	Capacity	%	50 ~ 120	50 ~ 120

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 CO<sub>2</sub>, 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.