

HEAT PUMP KXZ



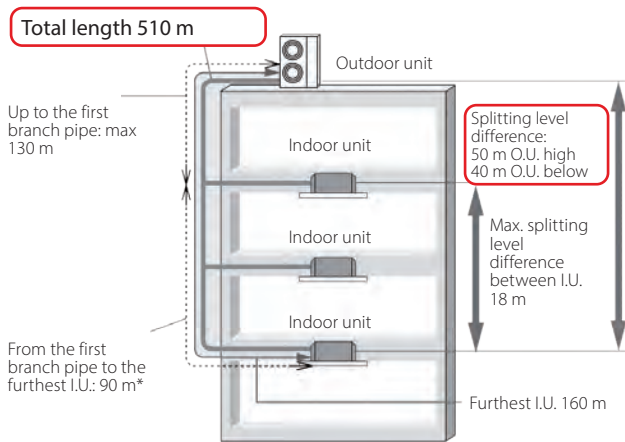
MICRO LARGE CONNECTION

CONNECT UP TO 24 INDOOR UNITS / 150% CAPACITY

- FDC 224 KXZME1 22.4 kW 3-Phase
- FDC 280 KXZME1 28.0 kW 3-Phase
- FDC 335 KXZME1A 33.5 kW 3-Phase

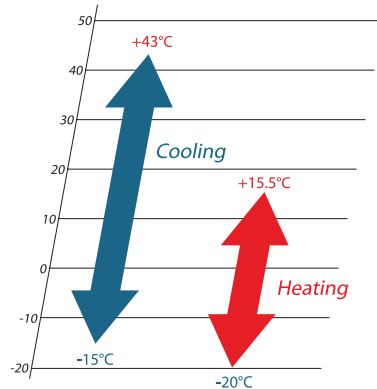
FEATURES

- 1 DC Inverter compressor (8~12HP)
- High splitting distance: up to 510 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m



* With length difference between the furthest indoor unit and the nearest one from the first branch pipe < 40 m.

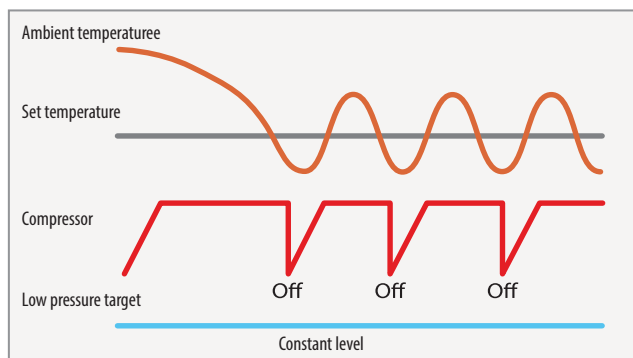
OPERATING RANGE



VRF-T TECHNOLOGY

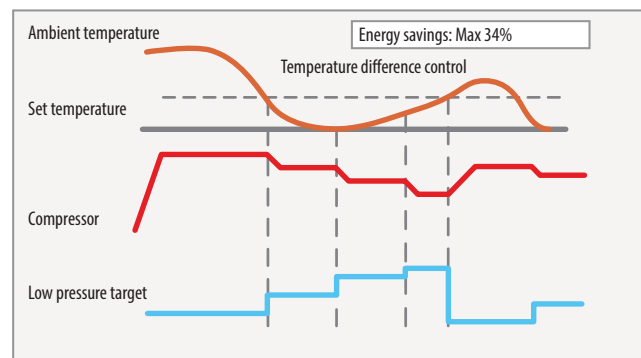
With VRF-T technology, refrigerant temperature control during the condensation and evaporation phases in the refrigerant system ensures energy savings up to 34% in cooling mode during the partial loads, compared to the traditional VRF models.

Traditional system cooling operation



In a traditional system, the refrigerant target pressure to be maintained is constant. As soon as room temperature reaches the temperature set by the user, the compressor is forced to decrease and increase the rpm by on-off cycles that affect the overall efficiency and performance.

KXZ system cooling operation with activation of VRF-T mode



With the new VRF-T, the refrigerant target pressure to be maintained is not constant, but adjusts proportionally to the difference between the room temperature and the desired temperature. This allows the Inverter compressors to modulate the rpm without ever stopping, thus expressing the maximum efficiency for a global energy saving operation.

MICRO LARGE CONNECTION

8~12HP (22.4~33.5 kW)



REFRIGERANT CONNECTIONS

HP		8	10	12
Liquid side	Furthest I.U.	ø9.52		ø12.7
Gas side	=<90 m	ø19.05	ø22.22	ø25.4
Liquid side	Furthest I.U.	ø12.7		
Gas side	=>90 m	ø22.22	ø25.4	

BRANCH PIPES



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



DIS-371-1B

MANIFOLDS



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

Outdoor unit model			FDC 224 KXZME1	FDC 280 KXZME1	FDC 335 KXZME1A
Power class		HP	8	10	12
Nominal data					
Rated capacity	Cooling	kW	22.40	28.00	33.50
Rated power input		kW	5.59	7.90	10.68
Rated energy efficiency coefficient		EER ¹	4.01	3.54	3.14
Rated capacity	Heating	kW	22.40	28.00	33.50
Rated power input		kW	4.97	6.53	8.44
Rated energy performance coefficient		COP ¹	4.51	4.29	3.97
Seasonal data					
Seasonal energy efficiency index	Cooling	SEER ²	6.55	6.03	5.84
Seasonal performance coefficient	Heating	SCOP ²	4.55	4.54	4.04
Seasonal energy efficiency (ηs)		%	179.00	178.60	158.60
Electrical data					
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz		
Rated current	Cooling	A	9.40	12.80	17.80
	Heating	A	7.80	10.50	14.40
Maximum current		A	20.00	20.00	23.00
Refrigerant circuit data					
Refrigerant ³		type (GWP)	R410A (2088)		
Qty of refrigerant pre-charge (tons of CO ₂ equivalent)		kg	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)
Piping diameter	Liquid	inch	3/8" (9.52)	3/8" (9.52)	1/2" (12.7)
	Gas	(mm)	3/4" (19.05)	7/8" (22.22)	1" (25.4)
Product specifications					
Dimensions	HxLxD	mm	1675x1080x480	1675x1080x480	1675x1080x480
Net weight		kg	221	221	224
Sound power level	Max	dB(A)	75	76	77
Sound pressure level	Max	dB(A)	59	60	62
Volume of air treated	Standard	m ³ /h	12000	12000	12000
Fan static pressure	Max	Pa	35	35	35
Operating range (outdoor temperature)	Cooling	°C	-15~43	-15~43	-15~43
	Heating	°C	-20~15.5	-20~15.5	-20~15.5
Connectable indoor units	Min ~ Max	nb.	1 ~ 22	1 ~ 24	1 ~ 24
	Capacity	%	50 ~ 150	50 ~ 150	50 ~ 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. For the calculation of the additional refrigerant charge, refer to the labels placed inside and outside the unit. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.