

KXZM MICRO LARGE CONNECTION



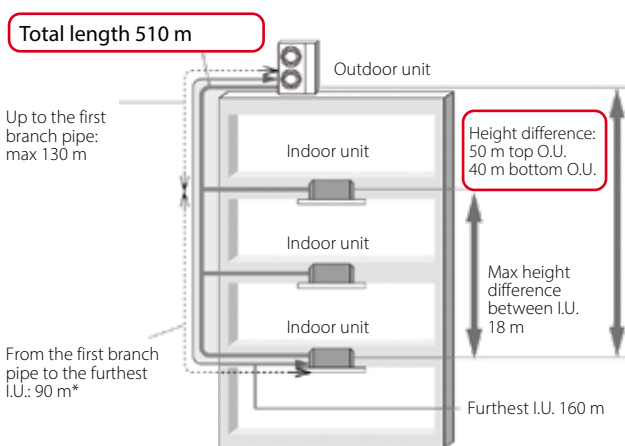
Heat pump

CONNECT UP TO 24 INDOOR UNITS/150% CAPACITY

- FDC 224 KXZME1 22.4 kW three-phase
- FDC 280 KXZME1 28.0 kW three-phase
- FDC 335 KXZME1A 33.5 kW three-phase

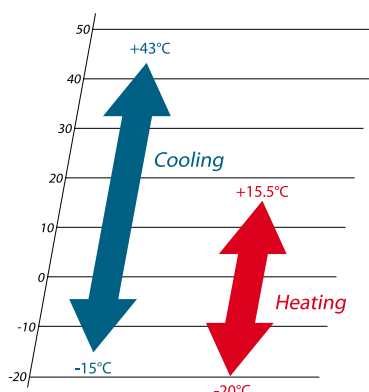
CHARACTERISTICS

- 1 DC Inverter compressors (8~12HP)
- High split: up to 510 m in total and with a maximum 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.

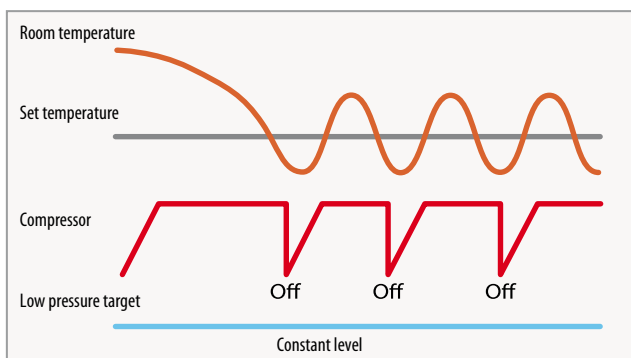
OPERATING RANGE



VRF-T TECHNOLOGY

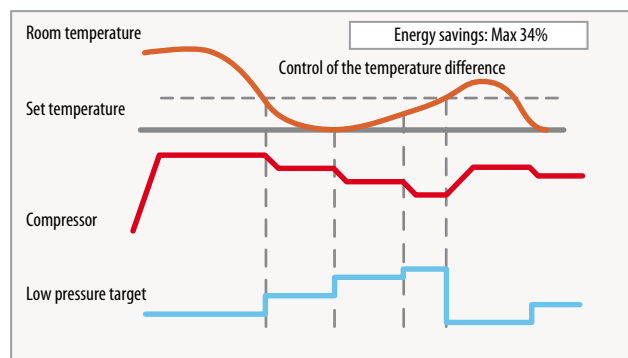
With VRF-T technology, refrigerant temperature control during the condensation and evaporation phases in the refrigerant system ensures energy savings up to 34% in cooling mode during the partial loads, compared to the traditional VRF models.

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 mod



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.

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Heat pump

8~12HP (22.4~33.5 kW)



REFRIGERANT CONNECTIONS

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

Models		FDC 224 KXZME1	FDC 280 KXZME1	FDC 335 KXZME1A
Nominal Cool. capacity (T=35°C)	kW	22.40	28.00	33.50
Cool. power consumption (T=35°C)	kW	5.59	7.90	10.68
Annual energy consumption in Cool.	kWh/a			
Seasonal energy efficiency index in Cool.	SEER ²	6.55	6.03	5.84
Rated energy efficiency coefficient in Cool.	EER ³	4.01	3.54	3.13
Nominal Heat. capacity (T=7°C)	kW	22.40	28.00	33.50
Heat. power consumption (T=7°C)	kW	4.97	6.53	8.44
Annual energy consumption in Heat.	kWh/a			
Seasonal energy efficiency index in Heat.	SCOP ²	4.55	4.54	4.04
Rated energy efficiency coefficient in Heat.	COP ³	4.51	4.29	3.96
Power		Three-phase 380~415V 50Hz		
Rated current in Cool.	A	9.40	12.80	17.80
Rated current in Heat.	A	7.80	10.50	14.40
Sound pressure level	dB(A)	58	60	60
Sound power level	dB(A)	73	75	75
External dimensions (HxLxD)	mm	1675x1080x480		
Exterior appearance (Munsell colour)		Stucco white (4.2Y7.5 / 1.1) equivalent		
Net weight	kg	221	221	224
Refrigerant circuit/Compressor type and qty.		GTC5150NH40K x 1		
Motor	kW	4.69	6.78	9.59
Starting method		In line, direct		
Indoor System Units	Number of connectable I.U.	from 1 to 22	from 1 to 24	from 1 to 24
	Total connectable capacity	112 ~ 336	140 ~ 420	167 ~ 502
Crankcase heater	W	33	33	33
Refrigerant circuit/Heat exchanger		Pipes finned and grooved internally		
Refrigerant control		Electronic expansion valve		
Refrigerant/GWP ⁴		R410A/2088	R410A/2088	R410A/2088
Quantity	kg	11.50	11.50	11.50
Tons of CO2 equivalent		24.01	24.01	24.01
Refrigerant oil	l	1.7 (M-MA32R)	1.7 (M-MA32R)	1.7 (M-MA32R)
Defrost control		Microcomputer controlled		
Air treatment/Fan type and quantity		Axial fan x 2		
Motor	W	144x2		
Starting method		Direct		
Air flow (Standard)	m ³ /h	12000		
Shock and vibration absorption		Rubber vibration absorber (for compressor)		
Safety devices		Compressor overheating protection, overcurrent protection, power transistor overheating protection, abnormal high pressure protection		
Diameter refrigerant pipes	mm (inch)	Liquid side ø 3/8" (9.52)	Liquid side ø 3/8" (9.52)	Liquid side ø 1/2" (12.7)
		Gas side ø 3/4" (19.05)	Gas side ø 7/8" (22.22)	Gas side ø 1" (25.4)
Joining method		Liquid line flare/Gas line brazing		
Condensate drain		Holes for drain ø20x4		
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.