

KXZW WATER COOLED SYSTEMS

These MHI systems use water as a source for air conditioning. They are ideal for tall buildings.

- Energy savings.
- High efficiency.
- Flexible design.
- Same BMS as the KXZ.
- Ease of maintenance.
- Ideal for applications on tall buildings.
- Integrates with the architecture.



KXZW WATER COOLED SYSTEMS



VRF multi systems - outdoor units

CHARACTERISTICS

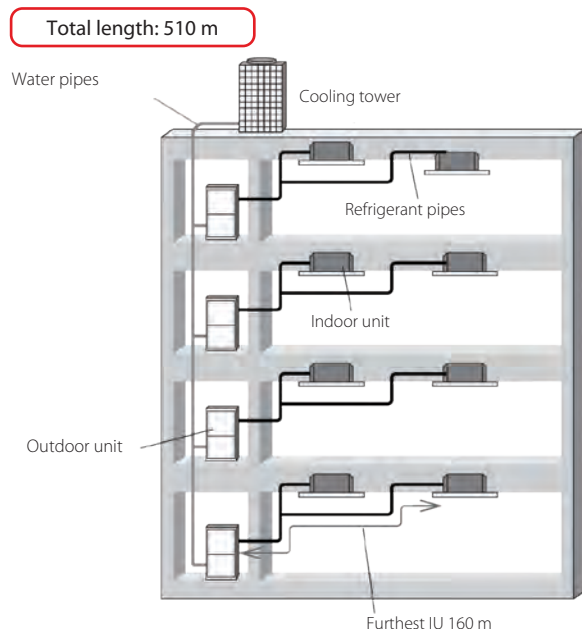
- Energy savings, reduced operating costs
- Flexible, compact design
- Easy transport and installation
- BMS (Building Management System); the same system for controlling the air-cooled system (KXZ)
- Support and maintenance; easy front access to the main parts (compressor, control, plate heat exchanger, etc.)
- Wide range of control software and maintenance instruments (Mente PC, SL-Checker, etc.)

APPLICATIONS

- Skyscraper 100 metres or more in height
- Glass façade; exterior of a building thanks to the possibility of hiding the condensing unit

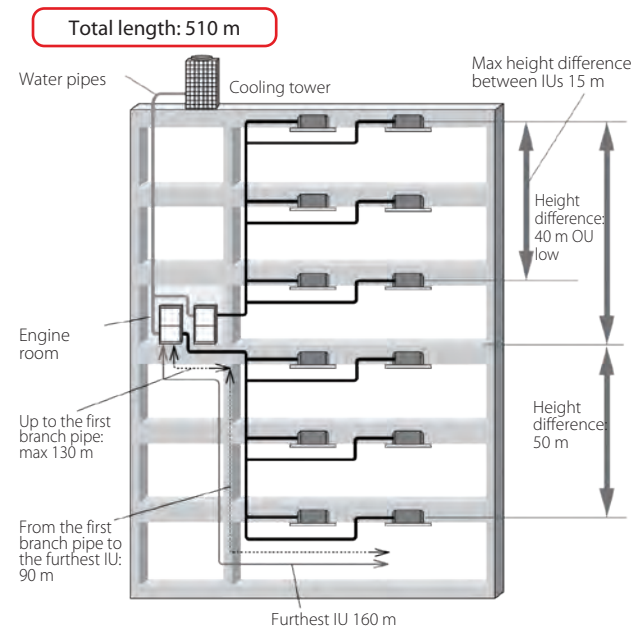
OUTDOOR UNITS ON EVERY FLOOR

(new construction projects)



OUTDOOR ENGINE ROOM UNITS

(renovation projects)



KXZW WATER COOLED SYSTEMS



VRF multi systems - outdoor units

CONNECT UP TO 33 INDOOR UNITS/150% CAPACITY

- FDC 224 KXZWE1 22.4 kW
- FDC 280 KXZWE1 28.0 kW
- FDC 335 KXZWE1 33.5 kW

FDC224~335KXZWE1 8~12HP (22.4~33.5 kW)



8~12HP (22.4~33.5 kW)

Models		FDC224KXZWE1	FDC280KXZWE1	FDC335KXZWE1
Nominal Cool. capacity	kW	22.40	28.00	33.50
Cool. power consumption	kW	4.23	5.75	8.13
Rated energy efficiency coefficient in Cool.	EER ¹	5.30	4.87	4.12
Nominal Heat. capacity	kW	25.00	31.50	37.50
Heat. power consumption	kW	4.24	5.10	6.30
Rated energy efficiency coefficient in Heat.	COP ¹	5.90	6.18	5.95
Power		Three-phase 380-415V 50Hz		
Rated current in Cool.	A	7.14	9.64	13.40
Rated current in Heat.	A	7.13	8.59	10.50
Sound level	dB(A)	48	50	52
External dimensions (HxLxD)	mm	1100x780x550	1100x780x550	1100x780x550
Exterior appearance (Munsell colour)		Stucco white (4.2Y7.5 / 1.16) equivalent		
Net weight	kg	185		
Indoor System Units	Number of connectable IU	from 1 to 22	from 1 to 28	from 1 to 33
	Total connectable capacity*	112 ~ 336	140 ~ 420	167 ~ 503
Crankcase heater	W	33 x 1	33 x 1	33 x 1
Refrigerant circuit/Heat exchanger		Heat plate exchanger		
Refrigerant control		Electronic expansion valve		
Refrigerant		R410A		
Quantity	kg	9.9		
Safety devices		Compressor overheating protection/overcurrent/power transistor overheating protection/abnormal high pressure protection		

* When connecting the indoor units in the following series: FDX, FDFL, FDFU or FDFW, the power of the connectable indoor units cannot exceed 130%. 1. Value measured according to harmonised standard EN14511.

KXZW WATER COOLED SYSTEMS



VRF multi systems - outdoor units

CONNECT UP TO 67 INDOOR UNITS/150% CAPACITY

FDC 450 KXZWE1 (FDC224x2)	45.0 kW
FDC 500 KXZWE1 (FDC224+FDC280)	50.0 kW
FDC 560 KXZWE1 (FDC280x2)	56.0 kW
FDC 615 KXZWE1 (FDC280+FDC335)	61.5 kW
FDC 670 KXZWE1 (FDC335x2)	67.0 kW

FDC224~670KXZWE1



COMBINATIONS

16~24HP (45.0~67.0 kW)

Models		FDC450KXZWE1	FDC500KXZWE1	FDC560KXZWE1	FDC615KXZWE1	FDC670KXZWE1
Combined units		FDC224KXZWE1	FDC224KXZWE1	FDC280KXZWE1	FDC280KXZWE1	FDC335KXZWE1
		FDC224KXZWE1	FDC280KXZWE1	FDC280KXZWE1	FDC335KXZWE1	FDC335KXZWE1
		-	-	-	-	-
Nominal Cool. capacity	kW	45.00	50.00	56.00	61.50	67.00
Cool. power consumption	kW	8.49	9.83	11.50	13.70	16.30
Rated energy efficiency coefficient in Cool.	EER ¹	5.30	5.09	4.87	4.49	4.11
Nominal Heat. capacity	kW	50.00	56.00	63.00	69.00	75.00
Heat. power consumption	kW	8.47	9.27	10.20	11.40	12.60
Rated energy efficiency coefficient in Heat.	COP ¹	5.90	6.04	6.18	6.05	5.95
Power		Three-phase 380-415V 50Hz				
Rated current in Cool.	A	14.30	16.50	19.30	22.70	26.80
Rated current in Heat.	A	14.30	15.60	17.20	19.10	21.00
Sound level	dB(A)	51	52	53	54	55
External dimensions (HxLxD)	mm	1100x780x550 x 2				
Exterior appearance (Munsell colour)		Stucco white (4.2Y7.5 / 1.16) equivalent				
Net weight	kg	185 x 2				
Indoor System Units	Number of connectable IU	from 1 to 44	from 1 to 50	from 1 to 56	from 2 to 61	from 2 to 67
	Total connectable capacity*	224 ~ 672	252 ~ 756	280 ~ 840	307 ~ 923	335 ~ 1005
Crankcase heater	W	33 x 2				
Refrigerant circuit/Heat exchanger		Heat plate exchanger				
Refrigerant control		Electronic expansion valve				
Refrigerant		R410A				
Quantity	kg	9.9 x 2				
Safety devices		Compressor overheating protection/overcurrent/power transistor overheating protection/abnormal high pressure protection				
Diameter refrigerant pipes	mm (inch)	Liquid side: ø 12.7 (1/2")				
		Gas side: ø 28.58 (1, 1/8") ø 9.52 (3/8")				
Oil equalisation		Gas side: flange / Liquid side: flare				
Joining method	Water inlet	R1 1/4"				
	Water outlet	R1 1/4"				
	Condensate outlet	Rp 1/2" (internal threading)				

* When connecting the indoor units in the following series: FDK, FDF, FDFU or FDFW, the power of the connectable indoor units cannot exceed 130%. 1. Value measured according to harmonised standard EN14511.

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VRF multi systems - outdoor units

CONNECT UP TO 80 INDOOR UNITS/150% CAPACITY

FDC 730 KXZWE1 (FDC224x2+FDC280)	73.0 kW
FDC 775 KXZWE1 (FDC224+FDC280x2)	77.5 kW
FDC 850 KXZWE1 (FDC280x3)	85.0 kW
FDC 900 KXZWE1 (FDC280x2+FDC335)	90.0 kW
FDC 950 KXZWE1 (FDC280+FDC335x2)	95.0 kW
FDC 1000 KXZWE1 (FDC335x3)	100.0 kW

FDC730~1000KXZWE1



COMBINATIONS

26~36HP (73.0~100.0 kW)

Models		FDC730KXZWE1	FDC775KXZWE1	FDC850KXZWE1	FDC900KXZWE1	FDC950KXZWE1	FDC1000KXZWE1
Combined units		FDC224KXZWE1	FDC224KXZWE1	FDC280KXZWE1	FDC280KXZWE1	FDC280KXZWE1	FDC335KXZWE1
		FDC224KXZWE1	FDC280KXZWE1	FDC280KXZWE1	FDC280KXZWE1	FDC335KXZWE1	FDC335KXZWE1
		FDC280KXZWE1	FDC280KXZWE1	FDC280KXZWE1	FDC335KXZWE1	FDC335KXZWE1	FDC335KXZWE1
Nominal Cool. capacity	kW	73.00	77.50	85.00	90.00	95.00	100.00
Cool. power consumption	kW	14.20	15.50	17.50	19.50	21.70	24.30
Rated energy efficiency coefficient in Cool.	EER ¹	5.14	5.00	4.86	4.62	4.38	4.12
Nominal Heat. capacity	kW	82.50	90.00	95.00	100.00	106.00	112.00
Heat. power consumption	kW	13.80	14.80	15.40	16.40	17.60	18.80
Rated energy efficiency coefficient in Heat.	COP ¹	5.98	6.08	6.17	6.10	6.02	5.96
Power		Three-phase 380-415V 50Hz					
Rated current in Cool.	A	23.80	26.00	29.30	32.50	36.00	40.00
Rated current in Heat.	A	23.20	24.90	25.90	27.50	29.40	31.40
Sound level	dB(A)	54	54	55	56	56	57
External dimensions (HxLxD)	mm	1100x780x550 x 3					
Exterior appearance (Munsell colour)		Stucco white (4.2Y7.5 / 1.16) equivalent					
Net weight	kg	185 x 3					
Indoor System Units	Number of connectable IU	from 2 to 72	from 2 to 78	from 2 to 80	from 2 to 80	from 2 to 80	from 2 to 80
	Total connectable capacity*	364 ~ 1092	392 ~ 1176	420 ~ 1275	447 ~ 1343	475 ~ 1425	502 ~ 1508
Crankcase heater	W	33 x 3					
Refrigerant circuit/Heat exchanger		Heat plate exchanger					
Refrigerant control		Electronic expansion valve					
Refrigerant		R410A					
Quantity	kg	9.9 x 3					
Safety devices		Compressor overheating protection/overcurrent/power transistor overheating protection/abnormal high pressure protection					
Diameter refrigerant pipes	mm (inch)	Liquid side: ø 15.88 (5/8")					
		Gas side: ø 31.75 (1 1/4") [ø 34.92 (1 3/8")] [Gas side ø 38.1 (1 1/2") [ø 34.92 (1 3/8")]					
Oil equalisation		ø 9.52 (3/8")					
Joining method		Gas side: flange / Liquid side: flare					
Water pipe diameter	Water inlet	R1 1/4"					
	Water outlet	R1 1/4"					
	Condensate outlet	Rp 1/2" (internal threading)					

* When connecting the indoor units in the following series: FDK, FDL, FDFU or FDFW, the power of the connectable indoor units cannot exceed 130%. 1. Value measured according to harmonised standard EN14511.