KXZW WATER COOLED SYSTEMS VRF-T

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

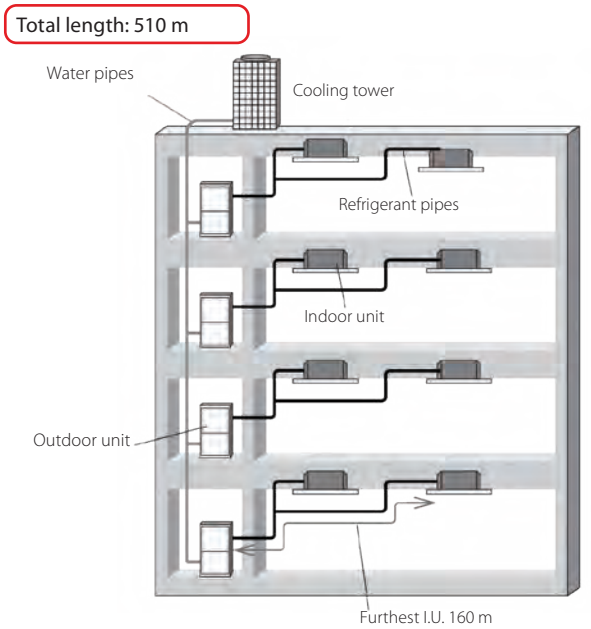
CHARACTERISTICS

- Energy savings, reduced operating costs.
- High efficiency.
- Flexible and compact design that can be transported in a lift.
- Integrates with the architecture.
- 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.).

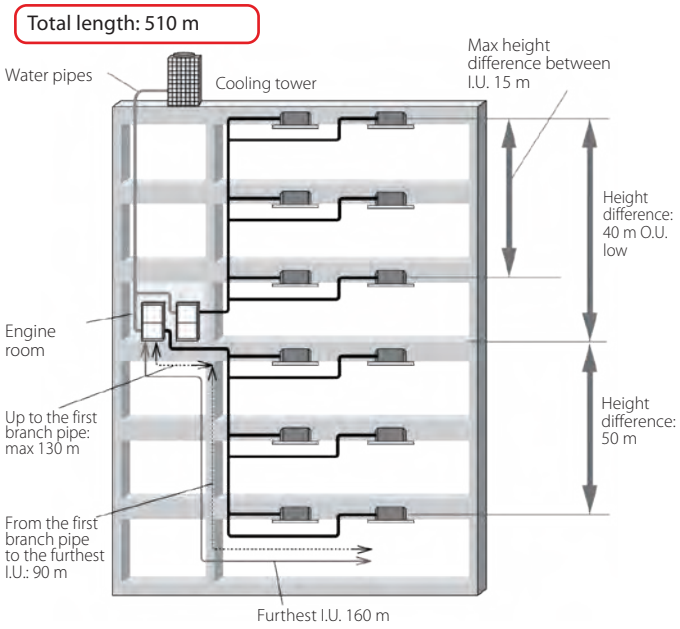
APPLICATIONS

- Ideal for applications on tall buildings.
- 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

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

8~12HP
(22.4~33.5 kW)

Models			FDC224KXZWE1	FDC280KXZWE1	FDC335KXZWE1
Combinations			-	-	-
			-	-	-
			-	-	-
Rated power		**HP**	**8**	**10**	**12**
Nominal capacity (W30/A27)	Cooling	kW	22.40	28.00	33.50
Power consumption (W30/A27)		kW	4.23	5.75	8.13
Rated energy efficiency coefficient		EER	5.30	4.87	4.12
Nominal capacity (W20/A20)	Heating	kW	25.00	31.50	37.50
Power consumption (W20/A20)		kW	4.24	5.10	6.30
Rated energy efficiency coefficient		COP	5.90	6.18	5.95
Electrical data					
Power		Ph-V-Hz	3Ph-380~415V-50Hz		
Rated current	Cooling	A	7.14	9.64	13.40
Rated current	Heating	A	7.13	8.59	10.50
Refrigerant circuit/features					
Refrigerant (GWP)[1]			R410A (2088)		
Quantity refrigerant pre-load		kg	9.9	9.9	9.9
Tons of CO2 equivalent			20.671	20.671	20.671
Diameter refrigerant pipes	Liquid	inch (mm)	ø3/8" (9.52)	ø3/8" (9.52)	ø1/2" (12.7)
	Gas		ø3/4" (19.05)	ø7/8" (22.22)	ø1" (25.4)
	Oil balancing		-	-	-
Product Specifications					
Dimensions	LxHxD	mm	1110x780x550	1110x780x550	1110x780x550
Net weight		kg	185	185	185
Sound pressure level	Max	dB(A)	48	50	52
Water flow rate (for each unit)	Min ~ Max	L/min	50 ~ 150	50 ~ 150	50 ~ 150
Pressure drop of heat-exchanger (for each unit)	Min ~ Max	kPa	8 ~ 68	8 ~ 68	8 ~ 68
Water pipe	In/Out	inch	R 1-1/4"	R 1-1/4"	R 1-1/4"
Max. connectable I.U.[2]	**Min ~ Max**	**no**	**1 ~ 22**	**1 ~ 28**	**1 ~ 33**
	Capacity	**%**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**

1. 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. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 2. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.

KXZW

CONNECT UP TO 67 INDOOR UNITS/150% CAPACITY

FDC 450 KXZWE1 (FDC 224x2)	45.0 kW
FDC 500 KXZWE1 (FDC 224+FDC 280)	50.0 kW
FDC 560 KXZWE1 (FDC 280x2)	56.0 kW
FDC 615 KXZWE1 (FDC 280+FDC 335)	61.5 kW
FDC 670 KXZWE1 (FDC 335x2)	67.0 kW

16~24HP
(45.0~67.0 kW)

COMBINATIONS

Models			FDC450KXZWE1	FDC500KXZWE1	FDC560KXZWE1	FDC615KXZWE1	FDC670KXZWE1
Combinations			FDC224KXZWE1	FDC224KXZWE1	FDC280KXZWE1	FDC280KXZWE1	FDC335KXZWE1
			FDC224KXZWE1	FDC280KXZWE1	FDC280KXZWE1	FDC335KXZWE1	FDC335KXZWE1
			-	-	-	-	-
Rated power		**HP**	**16**	**18**	**20**	**22**	**24**
Nominal capacity (W30/A27)	Cooling	kW	45	50	56	61.5	67
Power consumption (W30/A27)		kW	8.49	9.83	11.50	13.7	16.3
Rated energy efficiency coefficient		EER	5.30	5.09	4.87	4.49	4.11
Nominal capacity (W20/A20)	Heating	kW	50	56	63	69	75
Power consumption (W20/A20)		kW	8.47	9.27	10.2	11.4	12.6
Rated energy efficiency coefficient		COP	5.90	6.04	6.18	6.05	5.95
Electrical data							
Power		Ph-V-Hz	3Ph-380~415V-50Hz	3Ph-380~415V-50Hz	3Ph-380~415V-50Hz	3Ph-380~415V-50Hz	3Ph-380~415V-50Hz
Rated current	Cooling	A	14.3	16.5	19.3	22.7	26.8
Rated current	Heating	A	14.3	15.6	17.2	19.1	21
Refrigerant circuit/features							
Refrigerant (GWP)1			R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load		kg	19.80	19.80	19.80	19.80	19.80
Tons of CO2 equivalent			41.342	41.342	24.012	41.342	41.342
Diameter refrigerant pipes	Liquid	inch (mm)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)
	Gas		1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)
	Oil balancing		3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product Specifications							
Dimensions	LxHxD	mm	2220x780X550	2220x780X550	2220x780X550	2220x780X550	2220x780X550
Net weight		kg	370	370	370	370	370
Sound pressure level	Max	dB(A)	51	52	53	54	55
Water flow rate (for each unit)	Min ~ Max	L/min	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150
Pressure drop of heat-exchanger (for each unit)	Min ~ Max	kPa	8 ~ 68	8 ~ 68	8 ~ 68	8 ~ 68	8 ~ 68
Water pipe	In/Out	inch	R 1-1/4"	R 1-1/4"	R 1-1/4"	R 1-1/4"	R 1-1/4"
Max. connectable I.U.2	**Min ~ Max**	**no**	**1 ~ 44**	**1 ~ 50**	**1 ~ 56**	**2 ~ 61**	**2 ~ 67**
	Capacity	**%**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**

1. 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. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 2. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.

KXZW

CONNECT UP TO 80 INDOOR UNITS/150% CAPACITY

FDC 730 KXZWE1 (FDC 224x2+FDC 280)	73.0 kW
FDC 775 KXZWE1 (FDC 224+FDC 280x2)	77.5 kW
FDC 850 KXZWE1 (FDC 280x3)	85.0 kW
FDC 900 KXZWE1 (FDC 280x2+FDC 335)	90.0 kW
FDC 950 KXZWE1 (FDC 280+FDC 335x2)	95.0 kW
FDC 1000 KXZWE1 (FDC 335x3)	100.0 kW

26~36HP
(73.0~100.0 kW)

COMBINATIONS

Models			FDC730KXZWE1	FDC775KXZWE1	FDC850KXZWE1	FDC900KXZWE1	FDC950KXZWE1	FDC1000KXZWE1
Combinations			FDC224KXZWE1 FDC224KXZWE1 FDC280KXZWE1	FDC224KXZWE1 FDC280KXZWE1 FDC280KXZWE1	FDC280KXZWE1 FDC280KXZWE1 FDC280KXZWE1	FDC280KXZWE1 FDC280KXZWE1 FDC335KXZWE1	FDC280KXZWE1 FDC335KXZWE1 FDC335KXZWE1	FDC335KXZWE1 FDC335KXZWE1 FDC335KXZWE1
Rated power		**HP**	**26**	**28**	**30**	**32**	**34**	**36**
Nominal capacity (W30/A27)	Cooling	kW	73.00	77.50	85.00	90.00	95.00	100.00
Power consumption (W30/A27)	Cooling	kW	14.20	15.50	17.50	19.50	21.70	24.30
Rated energy efficiency coefficient	Cooling	EER	5.14	5.00	4.86	4.62	4.38	4.12
Nominal capacity (W20/A20)	Heating	kW	82.50	90.00	95.00	100.00	106.00	112.00
Power consumption (W20/A20)	Heating	kW	13.80	14.80	15.40	16.40	17.60	18.8
Rated energy efficiency coefficient	Heating	COP	5.98	6.08	6.17	6.10	6.02	5.96
Electrical data								
Power		Ph-V-Hz	3Ph-380~415V-50Hz					
Rated current	Cooling	A	23.80	26.00	29.30	32.50	36.00	40.00
Rated current	Heating	A	23.20	24.90	25.90	27.50	29.40	31.40
Refrigerant circuit/features								
Refrigerant (GWP)[1]			R410A (2088)					
Quantity refrigerant pre-load		kg	29.7	29.7	29.7	29.7	29.7	29.7
Tons of CO2 equivalent			62.014	62.014	62.014	62.014	62.014	62.014
Diameter refrigerant pipes	Liquid	inch (mm)	ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)	ø5/8" (15.88)
	Gas		ø1-1/4" (31.75)	ø1-1/4" (31.75)	ø1-1/4" (31.75)	ø1-1/4" (31.75)	ø1-1/4" (31.75)	ø1-1/2" (38.1)
	Oil balancing		ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)	ø3/8" (9.52)
Product Specifications								
Dimensions	LxHxD	mm	3330x780X550	3330x780X550	3330x780X550	3330x780X550	3330x780X550	3330x780X550
Net weight		kg	555	555	555	555	555	555
Sound pressure level	Max	dB(A)	54	54	55	56	56	57
Water flow rate (for each unit)	Min ~ Max	L/min	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150
Pressure drop of heat-exchanger (for each unit)	Min ~ Max	kPa	8 ~ 68	8 ~ 68	8 ~ 68	8 ~ 68	8 ~ 68	8 ~ 68
Water pipe	In/Out	inch	R 1-1/4"	R 1-1/4"	R 1-1/4"	R 1-1/4"	R 1-1/4"	R 1-1/4"
Max. connectable I.U.[2]	**Min ~ Max**	**no**	**2 ~ 72**	**2 ~ 78**	**2 ~ 80**	**2 ~ 80**	**2 ~ 80**	**2 ~ 80**
	Capacity	**%**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**

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