KXZRX2 Hi-COP VRF-T MODULAR SYSTEM

Record efficiency in heating and cooling

Greater energy efficiency with KXZRXE2 heat recovery systems, in any combination of outdoor units.

16~36HP
(45.0~100 kW)

MITSUBISHI HEAVY INDUSTRIES

HEAT RECOVERY KXZR2

KXZRX2 Hi-COP

CONNECT UP TO 71 INDOOR UNITS/160% CAPACITY (200% FOR FDC 450)

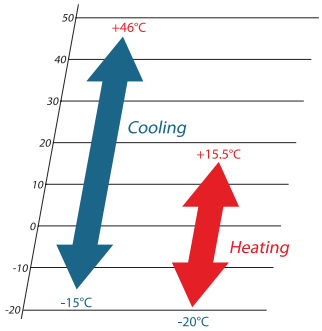
FDC 450 KXZRXE2 (FDC 224+FDC 224) 45.0 kW
FDC 500 KXZRXE2 (FDC 224+FDC 280) 50.0 kW
FDC 560 KXZRXE2 (FDC 280+FDC 280) 56.0 kW
FDC 615 KXZRXE2 (FDC 280+FDC 335) 61.5 kW
FDC 670 KXZRXE2 (FDC 335+FDC 335) 67.0 kW

FEATURES

- Maximum energy efficiency: COP 4.27 and EER 3.91 (16HP)
- Only DC Inverter compressors
- Splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

16~24HP
(45.0~67.0 kW)

OPERATING RANGE



COMBINATIONS

Outdoor unit model			FDC 450 KXZRXE2	FDC 500 KXZRXE2	FDC 560 KXZRXE2	FDC 615 KXZRXE2	FDC 670 KXZRXE2
Combinations			FDC 224 KXZRE2 FDC 224 KXZRE2	FDC 224 KXZRE2 FDC 280 KXZRE2	FDC 280 KXZRE2 FDC 280 KXZRE2	FDC 280 KXZRE2 FDC 335KXZRE2	FDC 335 KXZRE2 FDC 335 KXZRE2
			-	-	-	-	-
Power class		**HP**	**16**	**18**	**20**	**22**	**24**
Rated capacity	Cooling	kW	45.00	50.00	56.00	61.50	67.00
Rated power input		kW	11.52	13.15	14.78	17.04	19.30
Rated energy efficiency coefficient		EER[1]	3.91	3.80	3.79	3.61	3.47
Rated capacity	Heating	kW	45.00	50.00	56.00	61.50	67.00
Rated power input		kW	10.54	12.13	13.72	15.30	16.88
Rated energy performance coefficient		COP[1]	4.27	4.12	4.08	4.02	3.97
Seasonal data							
Seasonal energy efficiency index	Cooling	SEER[6]	6.28	6.62	6.98	7.20	7.41
Seasonal performance coefficient	Heating	SCOP[6]	4.06	4.03	4.02	4.22	4.43
Seasonal energy efficiency (ηs)		%	159.40	158.20	157.80	165.90	174.10
Electrical data							
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz				
Rated current	Cooling	A	20.20	22.30	24.40	28.00	31.50
	Heating	A	18.20	20.40	22.70	25.10	27.60
Maximum current		A	32.00	36.00	40.00	41.20	42.40
Refrigerant circuit data							
Refrigerant[2]		Type (GWP)	R410A (2088)				
Q.ty of refrigerant pre-charge[3] (tons of CO2 equivalent)		kg	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)
Piping diameter[4]	Liquido	inch (mm)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)
	Gas LP		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)
	Gas HP		7/8" (22.2)	7/8" (22.2)	7/8" (22.2)	1" (25.4)	1" (25.4)
	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	HxLxD	mm	1697x2700x720				
Net weight		kg	610	610	610	610	610
Connectable indoor units[5]	**Min ~ Max**	**nb.**	**2 ~ 60**	**2 ~ 53**	**2 ~ 59**	**2 ~ 65**	**2 ~ 71**
	Capacity	**%**	**80 ~ 200**	**80 ~ 160**	**80 ~ 160**	**80 ~ 160**	**80 ~ 160**

1. Value measured according to the harmonised standard EN 14511. 2. 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. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%. 6. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825

KXZRX2 Hi-COP

CONNECT UP TO 80 INDOOR UNITS/160% CAPACITY (130% FOR FDC 1000)

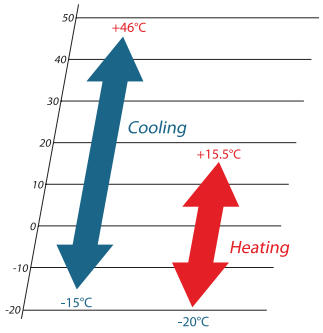
FDC 735 KXZRXE2 (FDC 224+FDC 224+FDC 280) 73.5 kW
FDC 800 KXZRXE2 (FDC 224+FDC 280+FDC 280) 80.0 kW
FDC 850 KXZRXE2 (FDC 280+FDC 280+FDC 280) 85.0 kW
FDC 900 KXZRXE2 (FDC 280+FDC 280+FDC 335) 90.0 kW
FDC 950 KXZRXE2 (FDC 280 +FDC 335+FDC 335) 95.0 kW
FDC 1000 KXZRXE2 (FDC 335+FDC 335+ FDC 335) 100.0 kW

FEATURES

- Maximum energy efficiency: COP 4.22 and EER 3.89 (26HP)
- Only DC Inverter compressors
- Splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

26~36HP
(73.5~100.0 kW)

OPERATING RANGE



COMBINATIONS

Outdoor unit model			FDC 735 KXZRXE2	FDC 800 KXZRXE2	FDC 850 KXZRXE2	FDC 900 KXZRXE2	FDC 950 KXZRXE2	FDC 1000 KXZRXE2
Combinations			FDC 224 KXZRE2 FDC 224 KXZRE2 FDC 280 KXZRE2	FDC 224 KXZRE2 FDC 280 KXZRE2 FDC 280 KXZRE2	FDC 280 KXZRE2 FDC 280 KXZRE2 FDC 280 KXZRE2	FDC 280 KXZRE2 FDC 280 KXZRE2 FDC 335 KXZRE2	FDC 280 KXZRE2 FDC 335 KXZRE2 FDC 335 KXZRE2	FDC 335 KXZRE2 FDC 335 KXZRE2 FDC 335KXZRE2
Power class		HP	26	28	30	32	34	36
Rated capacity	Cooling	kW	73.50	80.00	85.00	90.00	95.00	100.00
Rated power input		kW	18.91	20.54	22.17	24.43	26.69	28.95
Rated energy efficiency coefficient		EER[1]	3.89	3.89	3.83	3.68	3.56	3.45
Rated capacity	Heating	kW	73.50	80.00	85.00	90.00	95.00	100.00
Rated power input		kW	17.40	18.99	20.58	22.16	23.74	25.32
Rated energy performance coefficient		COP[1]	4.22	4.21	4.13	4.06	4.00	3.95
Seasonal data								
Seasonal energy efficiency index	Cooling	SEER[6]	6.50	6.73	6.98	7.12	7.27	7.41
Seasonal performance coefficient	Heating	SCOP[6]	4.04	4.02	4.02	4.15	4.29	4.43
Seasonal energy efficiency (ηs)		%	158.50	157.80	157.80	163.20	168.60	174.10
Electrical data								
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz					
Rated current	Cooling	A	32.40	34.50	36.60	40.20	43.70	47.30
	Heating	A	29.50	31.80	34.00	36.40	38.90	41.40
Maximum current		A	52.00	56.00	60.00	61.20	62.40	63.60
Refrigerant circuit data								
Refrigerant[2]		Type (GWP)	R410A (2088)					
Q.ty of refrigerant pre-charge[3] (tons of CO2 equivalent)		kg	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)
Piping diameter[4]	Liquido	inch (mm)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)
	Gas LP		1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/2" (38.1)
	Gas HP		1" (25.4)	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)	3/8" (9.52)
Product specifications								
Dimensions	HxLxD	mm	1697x4050x720					
Net weight		kg	915	915	915	915	915	915
Connectable indoor units[5]	**Min ~ Max**	**nb.**	**3 ~ 78**	**3 ~ 80**	**3 ~ 80**	**3 ~ 80**	**3 ~ 80**	**3 ~ 80**
	Capacity	**%**	**80 ~ 160**	**80 ~ 160**	**80 ~ 160**	**80 ~ 160**	**80 ~ 160**	**80 ~ 130**

1. Value measured according to the harmonised standard EN 14511. 2. 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. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%. 6. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825