

Set Free – FXN Technical Description – Outdoor units

General Data



RAS-8/10FXNE



RAS-16/20FXN



RAS-24/30FXN

Model		RAS-8FXNE	RAS-10FXNE	RAS-16FXN	RAS-20FXN	RAS-24FXN	RAS-30FXN
Power Supply		380-415V / 50Hz					
Nominal Cooling Capacity	W	22.4	28.0	45.0	56.0	69.0	85.0
Nominal Heating Capacity	W	25.0	31.5	50.0	63.0	77.5	95.0
Cabinet Colour		Natural Grey					
Sound Pressure Levels							
(Night Shift)	dB(A)	56(51)	58(53)	62(57)	62(57)	62(57)	63(58)
Outer Dimensions							
Height	mm	1,745	1,745	1,745	1,745	1,745	1,745
Width	mm	950	950	1,910	1,910	2,430	2,430
Depth	mm	750	750	750	750	750	750
Net Weight	kg	300	310	537	580	722	765
Refrigerant		R410A					
Flow control		Micro-Computer Control Expansion Valve					
Compressor		Hermetic (Scroll)					
Model		E405AHD	E405AHD	E405AHD	E405AHD	E405AHD	E405AHD
Quantity		E505DH	E605DH	E605DHx2	E655DHx3	E655DHx4	E655DHx5
Motor Output (Pole)	KW	1.8(4)+3.7(2)	2.3(4)+4.4(2)	3.0(4)+4.4(2)x2	1.8(4)+4.4(2)x3	1.4(4)+4.4(2)x4	1.4(4)+4.4(2)x5
Heat Exchanger		Multi-Pass Cross-Finned Tube					
Condenser Fan		Propeller Fan					
Quantity		1	1	1	2	2	2
Air Flow Rate	m ³ /min	138	172	172+172	172+172	210+172	210+172
Motor Output (Pole)	W	380(8)	380(8)	380(8)	380(8)+275(6)	380(8)+275(6)	380(8)+275(6)
Refrigerant Piping		Flare Nut Connection					
Liquid Line	mm(in.)	Ø9.53(3/8)	Ø9.53(3/8)	Ø12.70(1/2)	Ø15.88(5/8)	Ø15.88(5/8)	Ø19.05(3/4)
Gas Line Low	mm(in.)	Ø19.05(3/4)	Ø22.2(7/8)	Ø28.6(1 1/8)	Ø28.6(1 1/8)	Ø28.6(1 1/8)	Ø31.75(1 1/4)
Gas Line High	mm(in.)	Ø15.88(5/8)	Ø19.05(3/4)	Ø22.2(7/8)	Ø22.2(7/8)	Ø25.4(1)	Ø28.6(1 1/8)
Refrigerant Charge	kg	8.5	9.5	19.0	19.0	26.0	26.0
Wiring Holes							
Power Supply	mm	Ø56	Ø56	Ø56	Ø56	Ø70	Ø70
Control Circuit	mm	Ø26.5	Ø26.5	Ø26.5	Ø26.5	Ø26.5	Ø26.5
Connecting Wire between							
Indoor and Outdoor unit		2	2	2	2	2	2
Approximate Packing							
Measurement	m ³	1.44	1.44	2.82	2.82	3.57	3.57

NOTES:

1. The cooling and heating capacities show the capacities when the outdoor unit is operated with the 100% rating of indoor units, and are based on the standard JIS B8616-1984.

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB (80°F DB)
19.0°C WB (66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB (95°F DB)

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB (68°F DB)
Outdoor Air Inlet Temperature: 7°C DB (45°F DB)
6°C WB (43°F WB)
Piping Length: 7.5 Meters
Piping Lift: 0 Meter

2. The sound pressure level is based on following conditions. In case of cooling operation mode. In case of heating operation mode, the sound pressure level increases by approximately 1~2dB.

1 Meter from the unit service cover surface, and 1.5 Meters from floor level. Voltage of the power source is 380V. In case of the power source of 415V, the sound pressure level increases by about 1 dB. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.