

## Set Free – FSVNE Technical Description – Mini

### General Data

Model		RAS-3FSVNE	RAS-4FSVNE	RAS-5FSVNE
<b>Power Supply</b>		220-240V / 50Hz		
<b>Nominal Cooling Capacity</b>	kW	8.0	11.2	14.0
<b>Nominal Heating Capacity</b>	kW	9.0	12.5	16.0
<b>Cabinet Colour</b>		Beige		
<b>Sound Pressure Levels (Night Shift)</b>	dB(A)	46(42)/47	47(43)/48	50(46)/51
<b>Outer Dimensions</b>				
Height	mm	800	1,240	1,240
Width	mm	850	850	850
Depth	mm	315	315	315
<b>Net Weight</b>	kg	68	90	97
<b>Refrigerant</b>		R410A		
Flow control		Micro-Computer Control Expansion Valve		
<b>Compressor</b>		Hermetic (Rotary)	Hermetic (Scroll)	Hermetic (Scroll)
Model		2YC63BXD	EK405AHD	EK405AHD
Quantity		1	1	1
Motor Output (Pole)	kW	1.7(4)	2.2(4)	3.0(4)
<b>Heat Exchanger</b>		Multi-Pass Cross-Finned Tube		
<b>Condenser Fan</b>		Propeller Fan		
Quantity		1	2	2
Air Flow Rate	m <sup>3</sup> /min	52	88	99
Motor Output (Pole)	W	0.05(8)x1	0.05(8)x1+0.07(8)x1	0.05(8)x1+0.07(8)x1
<b>Refrigerant Piping</b>		Flare Nut Connection		
Liquid Line	mm(in.)	Ø9.53	Ø9.53	Ø9.53
Gas Line	mm(in.)	Ø15.88	Ø15.88	Ø15.88
<b>Refrigerant Charge</b>	kg	1.75	2.8	3.0
<b>Wiring Holes</b>				
Power Supply	mm	Ø26.5	Ø26.5	Ø26.5
Control Circuit	mm	Ø26.5	Ø26.5	Ø26.5
<b>Connecting Wire between</b>				
<b>Indoor and Outdoor unit</b>		2	2	2
<b>Approximate Packing</b>				
<b>Measurement</b>	m <sup>3</sup>	0.34	0.5	0.5

### NOTES:

- 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

- 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.



RAS-3FSVNE



RAS-4FSVNE / RAS-5FSVNE