



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature
- Maximum Pressure Limit

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Ambient °C	Cooling Capacity, kW												
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0			14.15	18.40	23.30	28.90	35.20	42.20	49.90	58.40	62.00	67.50	72.30
32.0			13.00	17.00	21.60	26.90	32.80	39.40	46.70	54.70	58.00	63.30	67.80
38.0				15.30	19.65	24.50	30.00	36.10	42.80	50.20	53.30	58.10	
43.0					17.95	22.50	27.60	33.30	39.60	46.40			
46.0					16.90	21.30	26.20	31.60	37.60				
49.0					15.85	20.10	24.70	29.90	35.70				

50 Hz

Z9-4MA-22

R449A Dew Point

Ambient °C	Total Power Input, kW												
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0			8.93	9.95	11.00	12.00	13.05	14.10	15.15	16.20	16.60	17.25	17.80
32.0			9.07	10.20	11.35	12.55	13.70	14.90	16.10	17.30	17.80	18.55	19.15
38.0				10.45	11.75	13.10	14.45	15.80	17.15	18.55	19.15	20.00	
43.0					12.00	13.45	14.95	16.45	18.00	19.55			
46.0					12.10	13.65	15.20	16.80	18.45				
49.0					12.20	13.80	15.45	17.15	18.85				

Ambient °C	Current at 400 V, A												
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0			17.13	18.16	19.30	20.52	21.82	23.18	24.58	26.04	26.64	27.56	28.34
32.0			17.29	18.46	19.76	21.17	22.67	24.25	25.89	27.60	28.30	29.37	30.28
38.0				18.74	20.24	21.87	23.61	25.45	27.37	29.38	30.20	31.46	
43.0					20.54	22.36	24.31	26.37	28.53	30.79			
46.0					20.69	22.62	24.69	26.88	29.19				
49.0					20.80	22.84	25.03	27.36	29.81				

Ambient °C	Mass Flow, g/s												
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0			77.20	101.50	130.50	165.00	205.00	252.00	307.00	372.00	400.00	447.00	489.00
32.0			73.90	98.20	127.00	161.00	201.00	247.00	302.00	366.00	394.00	441.00	483.00
38.0				93.50	122.00	155.50	194.50	241.00	295.00	358.00	387.00	433.00	
43.0					117.50	150.50	189.50	235.00	289.00	352.00			
46.0					114.50	147.50	186.00	231.00	285.00				
49.0					111.00	144.00	182.50	228.00	281.00				

### **CONDENSING UNIT MECHANICAL AND PHYSICAL DATA**

Condenser/Fan Type	Z9/611
Number of Fans	4
Total Fan Power Input, W	1600
Depth/Width, mm	1107/1600
Height, mm	1263
Base mounting (hole dia), mm	1435 x 535 (18)
Gross Weight, kg	548
Net Weight, kg	383
Receiver Capacity, l	18.9
Liquid Line, inch	7/8
Air Flow, m <sup>3</sup> /s	5.41
High Side PS gauge, bar	31
Low Side PS gauge, bar	22.5
Suction Type	Fixed Valve
Suction Diameter, inch	1 5/8
Sound Pressure @ 10m, dBA	59

### **CONDENSING UNIT ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Condenser Fan Current for 1 fan (single phase)	1.85 / 2.25
Compressor Maximum Operating Current, A	36.3
Compressor Locked Rotor Current, A	175

### **ACCESSORIES INCLUDED**

### **ACCESSORIES OPTIONAL**

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
AWM	380-420 V / 3~ / 50 Hz	400	YY/Y	Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00