



Minimum Evaporating Temp. With:

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

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		20.90	27.40	35.40	45.00	56.40	69.70	85.10	
15.0			25.90	33.50	42.60	53.40	66.00	80.60	97.40
20.0			24.40	31.60	40.20	50.50	62.40	76.30	92.20
25.0				29.80	37.90	47.60	58.90	72.00	87.10
30.0				27.90	35.60	44.70	55.40	67.80	82.10
35.0					33.40	41.90	51.90	63.60	77.10
40.0						39.10	48.50	59.50	72.10
45.0						36.40	45.20	55.40	67.20
50.0							41.90	51.40	62.40
55.0							38.60	47.40	
60.0									

50 Hz

4MT-22X

R407F Dew Point

Cond °C	Power, kW								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		7.66	8.51	9.26	9.89	10.35	10.55	10.55	
15.0			9.11	10.00	10.80	11.40	11.85	12.05	11.95
20.0			9.70	10.75	11.70	12.50	13.15	13.55	13.70
25.0				11.45	12.55	13.60	14.45	15.10	15.50
30.0				12.15	13.45	14.65	15.75	16.65	17.30
35.0					14.30	15.70	17.00	18.15	19.15
40.0						16.70	18.30	19.70	20.90
45.0						17.70	19.50	21.20	22.70
50.0							20.70	22.60	24.50
55.0							21.80	24.00	
60.0									

Cond °C	Current at 400 V, A								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		17.34	18.31	19.21	19.97	20.51	20.77	20.67	
15.0			18.99	20.06	21.03	21.81	22.35	22.57	22.40
20.0			19.68	20.95	22.13	23.18	24.02	24.58	24.78
25.0				21.84	23.27	24.61	25.76	26.67	27.27
30.0				22.72	24.42	26.06	27.55	28.84	29.85
35.0					25.55	27.51	29.37	31.05	32.50
40.0						28.94	31.18	33.28	35.18
45.0						30.34	32.97	35.51	37.88
50.0							34.72	37.72	40.58
55.0							36.40	39.87	
60.0									

50 Hz

4MT-22X

R407F Dew Point

Cond °C	Suction Mass Flow, g/s								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0		88.40	116.50	151.00	192.50	243.00	302.00	371.00	
15.0			113.50	147.50	188.50	237.00	295.00	363.00	443.00
20.0			110.50	144.00	184.00	232.00	289.00	356.00	434.00
25.0				140.50	179.50	227.00	283.00	348.00	426.00
30.0				137.00	175.50	221.00	276.00	341.00	417.00
35.0					171.00	216.00	270.00	333.00	408.00
40.0						211.00	264.00	326.00	400.00
45.0						206.00	257.00	318.00	391.00
50.0							251.00	311.00	382.00
55.0							245.00	304.00	
60.0									

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/h	87.7
Bore/Stroke, mm	75.7/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	183
Suction, inch	2 1/8
Discharge, inch	1 3/8
Oil Quantity, l	3.3
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	381 x 305 (18)
Sound Pressure @ 1m (LT), dBA	77
Sound Power (LT), dBA	88
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	71
Sound Power (MT), dBA	82
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1825
Refrigerant's classification	A1

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

Maximum Operating Current, A	44.5
Locked Rotor Current, A	175
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

CoreSense Protection (-P)	Motor protection
Mounting Parts	Spring
Oil Pressure Switch (-P)	OPS2 Sensor
Copeland Compressor Electronic (-N)	Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement

### **ACCESSORIES OPTIONAL**

Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Capacity Control	Capacity Steps 50%
Mounting Parts	Rubber
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Sound Attenuation	Sound Shell
Copeland Compressor Electronic module	Modbus extension module

### **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
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
AWR	220-240 V / 3~ / 50 Hz	230	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	Y	0.76
EWK	220-240 V / 3~ / 60 Hz	230	Y/DELTA	DELTA	2.10
EWK	380-420 V / 3~ / 60 Hz	380		Y	1.20
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
AWC	208-230 V / 3~ / 60 Hz	230	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00