



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		27.40	35.70	45.90	58.20	72.60	89.50	109.00	
15.0			34.20	44.00	55.70	69.60	85.80	104.50	126.00
20.0			32.60	42.00	53.20	66.50	82.10	100.00	120.50
25.0				39.90	50.70	63.30	78.20	95.40	115.00
30.0				37.80	48.00	60.10	74.20	90.60	109.50
35.0					45.30	56.80	70.20	85.70	103.50
40.0						53.40	66.00	80.70	97.70
45.0						49.90	61.80	75.70	91.70
50.0							57.60	70.60	85.60
55.0							53.20	65.40	
60.0									

50 Hz

6MM-30X

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		10.40	11.55	12.60	13.55	14.35	14.95	15.25	
15.0			12.25	13.50	14.65	15.65	16.45	17.00	17.25
20.0			13.00	14.45	15.80	17.00	18.05	18.85	19.35
25.0				15.40	17.00	18.45	19.70	20.80	21.60
30.0				16.40	18.15	19.85	21.40	22.80	23.80
35.0					19.35	21.30	23.10	24.70	26.10
40.0						22.60	24.80	26.70	28.40
45.0						23.90	26.30	28.60	30.60
50.0							27.80	30.40	32.80
55.0							29.10	32.00	
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		25.05	26.26	27.47	28.59	29.53	30.21	30.52	
15.0			27.02	28.45	29.82	31.04	32.03	32.69	32.94
20.0			27.88	29.55	31.20	32.74	34.07	35.10	35.76
25.0				30.74	32.69	34.56	36.26	37.70	38.79
30.0				31.94	34.22	36.46	38.56	40.43	41.98
35.0					35.74	38.37	40.90	43.23	45.27
40.0						40.24	43.22	46.04	48.60
45.0						42.02	45.48	48.81	51.92
50.0							47.61	51.48	55.16
55.0							49.55	53.99	
60.0									

50 Hz

6MM-30X

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		116.00	151.50	195.50	249.00	312.00	387.00	476.00	
15.0			150.00	193.50	246.00	309.00	384.00	471.00	574.00
20.0			148.00	191.00	243.00	306.00	380.00	467.00	568.00
25.0				188.50	240.00	302.00	375.00	462.00	563.00
30.0				185.50	237.00	298.00	370.00	456.00	556.00
35.0					233.00	293.00	365.00	449.00	549.00
40.0						288.00	359.00	443.00	542.00
45.0						282.00	352.00	435.00	534.00
50.0							345.00	427.00	525.00
55.0							338.00	419.00	
60.0									

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m³/h	121
Bore/Stroke, mm	71.5/57.5
Length/Width, mm	695/547
Height, mm	450
Net Weight, kg	215
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	79
Sound Power (LT), dBA	90
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
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	59.7
Locked Rotor Current, A	255
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

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

### **ACCESSORIES OPTIONAL**

Check Valve	For unloaded start operation
Mounting Parts	Rubber
Digital Modulation	33-100 %
Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 67/33 %
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Sound Attenuation	Sound Shell
Adapter Kit	For Parallel Operation
Discharge Shut-off	Angle valve
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	YYY	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	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	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	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00