



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		32.00	41.80	53.80	68.30	85.40	105.50	128.50	
15.0			39.60	51.00	64.70	80.90	99.90	122.00	147.00
20.0			37.50	48.30	61.30	76.60	94.60	115.50	139.50
25.0				45.60	57.90	72.30	89.30	109.00	131.50
30.0				43.00	54.50	68.20	84.10	102.50	124.00
35.0					51.30	64.10	79.10	96.50	116.50
40.0						60.00	74.10	90.40	109.50
45.0						56.00	69.10	84.40	102.00
50.0							64.10	78.40	94.80
55.0							59.20	72.40	
60.0									

50 Hz

6MT-35X

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		11.80	13.05	14.20	15.30	16.25	17.05	17.70	
15.0			14.00	15.35	16.65	17.80	18.80	19.70	20.30
20.0			14.90	16.50	18.00	19.35	20.60	21.70	22.60
25.0				17.60	19.30	21.00	22.50	23.80	25.00
30.0				18.65	20.60	22.50	24.30	25.90	27.40
35.0					21.90	24.10	26.20	28.10	29.90
40.0						25.60	28.00	30.30	32.40
45.0						27.10	29.80	32.40	34.90
50.0							31.60	34.60	37.40
55.0							33.30	36.70	
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		26.39	27.78	29.17	30.49	31.68	32.68	33.42	
15.0			28.88	30.52	32.12	33.61	34.93	36.03	36.83
20.0			29.97	31.90	33.81	35.64	37.33	38.81	40.03
25.0				33.29	35.55	37.75	39.84	41.75	43.42
30.0				34.66	37.30	39.92	42.44	44.81	46.97
35.0					39.05	42.11	45.11	47.97	50.65
40.0						44.30	47.81	51.21	54.44
45.0						46.47	50.52	54.49	58.32
50.0							53.22	57.80	62.26
55.0							55.88	61.10	
60.0									

50 Hz

6MT-35X

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		135.50	177.50	229.00	292.00	367.00	456.00	561.00	
15.0			174.00	225.00	286.00	360.00	447.00	549.00	669.00
20.0			170.00	220.00	280.00	352.00	438.00	538.00	656.00
25.0				215.00	274.00	345.00	429.00	527.00	643.00
30.0				211.00	269.00	338.00	420.00	517.00	630.00
35.0					263.00	331.00	411.00	506.00	618.00
40.0						323.00	402.00	496.00	606.00
45.0						316.00	393.00	485.00	593.00
50.0							385.00	475.00	581.00
55.0							376.00	464.00	
60.0									

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /h	135
Bore/Stroke, mm	75.7/57.5
Length/Width, mm	725/547
Height, mm	450
Net Weight, kg	221
Suction, inch	2 1/8
Discharge, inch	1 5/8
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	78
Sound Power (LT), dBA	89
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	73
Sound Power (MT), dBA	84
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	67.3
Locked Rotor Current, A	255
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
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**

Check Valve	For unloaded start operation
Mounting Parts	Rubber
Adapter Kit	For Parallel Operation
Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 67/33 %
Oil Pressure Switch	OPS2 Electronic Switch
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Digital Modulation	33-100 %
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