



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		35.00	45.90	59.40	75.60	94.90	117.50	144.00	
15.0			43.50	56.30	71.70	90.00	111.50	136.50	165.50
20.0			41.20	53.30	67.80	85.20	105.50	129.50	157.00
25.0				50.30	64.10	80.50	99.80	122.50	148.50
30.0				47.40	60.30	75.80	94.10	115.50	140.00
35.0					56.70	71.20	88.30	108.50	131.50
40.0						66.60	82.70	101.50	123.50
45.0						62.00	77.10	94.70	115.00
50.0							71.40	87.90	107.00
55.0							65.90	81.10	
60.0									

50 Hz

6MU-40X

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		13.20	14.80	16.25	17.55	18.60	19.35	19.70	
15.0			15.70	17.45	19.00	20.30	21.40	22.10	22.40
20.0			16.65	18.60	20.40	22.10	23.50	24.60	25.30
25.0				19.75	21.90	23.80	25.60	27.00	28.20
30.0				20.80	23.30	25.50	27.70	29.50	31.00
35.0					24.60	27.20	29.70	32.00	33.90
40.0						28.90	31.70	34.40	36.80
45.0						30.40	33.60	36.70	39.50
50.0							35.50	38.90	42.30
55.0							37.20	41.10	
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		29.01	30.85	32.63	34.23	35.53	36.44	36.83	
15.0			31.90	34.00	35.97	37.71	39.10	40.03	40.40
20.0			33.00	35.44	37.80	39.99	41.89	43.38	44.37
25.0				36.90	39.68	42.34	44.77	46.85	48.47
30.0				38.35	41.57	44.73	47.70	50.39	52.67
35.0					43.43	47.10	50.65	53.96	56.93
40.0						49.43	53.57	57.53	61.20
45.0						51.67	56.42	61.05	65.45
50.0							59.17	64.49	69.63
55.0							61.77	67.80	
60.0									

50 Hz

6MU-40X

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		148.00	195.00	253.00	323.00	408.00	509.00	627.00	
15.0			191.00	248.00	317.00	400.00	499.00	616.00	753.00
20.0			186.50	242.00	310.00	392.00	489.00	604.00	739.00
25.0				237.00	304.00	384.00	479.00	592.00	725.00
30.0				232.00	297.00	376.00	469.00	580.00	712.00
35.0					291.00	367.00	459.00	569.00	698.00
40.0						359.00	449.00	556.00	684.00
45.0						350.00	439.00	544.00	670.00
50.0							428.00	532.00	656.00
55.0							418.00	520.00	
60.0									

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /h	153
Bore/Stroke, mm	80.6/57.5
Length/Width, mm	757/547
Height, mm	450
Net Weight, kg	225
Suction, inch	2 5/8
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	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	75
Sound Power (MT), dBA	86
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	75.8
Locked Rotor Current, A	306
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**

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