



Minimum Evaporating Temp. With:

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

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	19.95	26.60	35.20	46.00	59.20	75.10	93.80			
10.0	18.70	25.10	33.30	43.60	56.10	71.10	88.90	109.50	133.50	
15.0	17.45	23.60	31.40	41.10	52.90	67.10	83.80	103.50	126.00	152.50
20.0	16.10	22.10	29.50	38.60	49.70	63.00	78.80	97.30	118.50	143.50
25.0		20.50	27.50	36.10	46.50	59.00	73.80	91.10	111.00	134.50
30.0			25.50	33.50	43.20	54.90	68.70	84.80	103.50	125.50
35.0			23.40	30.90	39.90	50.70	63.50	78.60	96.10	116.50
40.0				28.20	36.60	46.50	58.30	72.20	88.50	107.50
45.0				25.50	33.20	42.30	53.10	65.90	80.80	98.20
50.0					29.70	38.00	47.80	59.40	73.10	89.10
55.0					26.10	33.60	42.40	52.90	65.30	79.80
60.0						29.10	37.00	46.40	57.50	
62.0							27.30	34.80	43.70	54.30

50 Hz

6MU-40

R404A Dew Point

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	9.93	11.50	13.10	14.55	15.90	17.05	17.95			
10.0	10.25	12.00	13.70	15.35	16.90	18.30	19.45	20.30	20.80	
15.0	10.60	12.45	14.35	16.20	17.95	19.55	21.00	22.10	23.00	23.40
20.0	10.85	12.90	15.00	17.05	19.05	20.90	22.50	24.00	25.10	25.90
25.0		13.30	15.60	17.85	20.10	22.20	24.10	25.80	27.30	28.40
30.0			16.10	18.60	21.00	23.40	25.60	27.70	29.50	30.90
35.0			16.50	19.20	21.90	24.60	27.10	29.50	31.60	33.40
40.0				19.70	22.70	25.60	28.50	31.10	33.60	35.80
45.0				20.00	23.30	26.50	29.70	32.70	35.50	38.10
50.0					23.70	27.30	30.70	34.10	37.30	40.30
55.0					23.90	27.80	31.60	35.30	38.90	42.30
60.0						28.00	32.20	36.30	40.30	
62.0						28.10	32.40	36.70	40.80	

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	26.03	27.48	29.10	30.79	32.41	33.86	35.03			
10.0	26.31	27.93	29.78	31.73	33.66	35.47	37.03	38.23	38.96	
15.0	26.62	28.43	30.51	32.74	35.00	37.18	39.16	40.82	42.05	42.73
20.0	26.91	28.93	31.26	33.78	36.39	38.95	41.35	43.49	45.24	46.48
25.0		29.37	31.97	34.80	37.76	40.72	43.57	46.20	48.48	50.30
30.0			32.59	35.75	39.07	42.45	45.76	48.89	51.72	54.14
35.0			33.07	36.57	40.28	44.09	47.88	51.52	54.92	57.95
40.0				37.22	41.34	45.59	49.86	54.04	58.02	61.67
45.0				37.66	42.18	46.89	51.67	56.40	60.97	65.26
50.0					42.77	47.96	53.26	58.55	63.73	68.68
55.0					43.06	48.73	54.57	60.44	66.25	71.86
60.0						49.17	55.55	62.02	68.46	
62.0						49.24	55.84	62.56	69.26	

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	107.00	143.50	190.00	249.00	321.00	409.00	514.00			
10.0	104.50	140.50	187.00	245.00	317.00	403.00	507.00	629.00	772.00	
15.0	101.50	138.00	184.00	241.00	312.00	397.00	499.00	619.00	761.00	927.00
20.0	98.00	134.50	180.50	237.00	306.00	390.00	490.00	609.00	749.00	913.00
25.0		131.00	176.50	232.00	300.00	383.00	481.00	599.00	737.00	899.00
30.0			172.00	227.00	294.00	375.00	472.00	587.00	724.00	885.00
35.0			166.50	221.00	287.00	367.00	462.00	576.00	711.00	870.00
40.0				214.00	279.00	357.00	451.00	563.00	697.00	855.00
45.0				207.00	271.00	347.00	439.00	550.00	682.00	839.00
50.0					261.00	337.00	427.00	536.00	667.00	823.00
55.0					251.00	325.00	414.00	522.00	652.00	809.00
60.0						313.00	401.00	509.00	639.00	
62.0						308.00	396.00	504.00	635.00	

**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	78
Sound Power (LT), dBA	89
Sound Power with Sound Shell (LT), dBA	74
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 Power with Sound Shell (MT), dBA	72
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	3922
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**

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**

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
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Sound Attenuation	Sound Shell
Mounting Parts	Rubber
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