



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	19.40	25.90	34.10	44.10	56.30	70.60	87.40	107.00	
15.0	18.30	24.60	32.40	42.00	53.50	67.20	83.20	101.50	
20.0	17.15	23.20	30.70	39.90	50.80	63.80	79.00	96.60	
25.0		21.80	29.00	37.70	48.10	60.40	74.70	91.40	110.50
30.0		20.40	27.30	35.50	45.30	56.90	70.50	86.20	104.50
35.0			25.50	33.30	42.50	53.40	66.20	81.00	98.10
40.0			23.70	31.00	39.70	49.90	61.90	75.80	91.80
45.0				28.70	36.80	46.40	57.50	70.50	85.50
50.0					33.90	42.80	53.10	65.20	79.10
55.0					30.90	39.10	48.70	59.80	72.80
60.0						35.40	44.20	54.40	
62.0						33.90	42.40	52.20	

50 Hz

6MM-30X

R407A 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	8.90	10.10	11.20	12.25	13.10	13.80	14.30	14.50	
15.0	9.29	10.60	11.90	13.10	14.20	15.10	15.80	16.25	
20.0	9.66	11.15	12.60	14.00	15.30	16.45	17.40	18.10	
25.0		11.60	13.25	14.85	16.35	17.75	18.95	19.95	20.70
30.0		12.05	13.85	15.70	17.45	19.05	20.50	21.80	22.80
35.0			14.45	16.45	18.45	20.30	22.10	23.70	25.00
40.0			14.90	17.15	19.40	21.60	23.60	25.50	27.10
45.0				17.80	20.30	22.70	25.10	27.20	29.20
50.0					21.10	23.80	26.40	28.90	31.30
55.0					21.70	24.80	27.70	30.60	33.20
60.0						25.60	28.90	32.10	
62.0						25.90	29.30	32.60	

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	23.69	24.81	25.98	27.11	28.11	28.90	29.40	29.51	
15.0	24.05	25.32	26.67	28.03	29.30	30.40	31.24	31.73	
20.0	24.42	25.85	27.41	29.02	30.57	31.99	33.19	34.09	
25.0		26.37	28.16	30.03	31.89	33.65	35.23	36.55	37.51
30.0		26.85	28.88	31.04	33.22	35.34	37.33	39.08	40.52
35.0			29.56	32.01	34.53	37.04	39.44	41.65	43.58
40.0			30.14	32.91	35.80	38.70	41.54	44.23	46.68
45.0				33.72	36.99	40.31	43.61	46.79	49.78
50.0					38.06	41.83	45.60	49.30	52.84
55.0					39.00	43.22	47.49	51.72	55.83
60.0						44.46	49.24	54.03	
62.0						44.90	49.90	54.91	

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	90.30	121.00	159.50	207.00	265.00	334.00	416.00	511.00	
15.0	88.10	118.50	157.00	204.00	261.00	329.00	410.00	504.00	
20.0	85.80	116.50	154.50	201.00	257.00	324.00	404.00	497.00	
25.0		113.50	151.50	197.50	253.00	319.00	398.00	490.00	597.00
30.0		111.00	148.50	194.00	248.00	314.00	391.00	482.00	588.00
35.0			145.00	190.00	244.00	308.00	384.00	473.00	578.00
40.0			141.00	185.50	238.00	302.00	377.00	465.00	568.00
45.0				180.50	233.00	295.00	369.00	456.00	558.00
50.0					227.00	288.00	360.00	446.00	547.00
55.0					220.00	280.00	352.00	436.00	536.00
60.0						272.00	342.00	426.00	
62.0						268.00	338.00	422.00	

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	80
Sound Power (LT), dBA	91
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	2107
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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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