



Minimum Evaporating Temp. With:

■ 20 °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							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	35.10	44.50	55.90					
15.0	33.40	42.40	53.30	66.40				
20.0	31.70	40.40	50.80	63.20	77.90			
25.0	30.10	38.30	48.20	60.10	74.00	90.20	97.40	
30.0	28.40	36.20	45.70	56.90	70.10	85.40	92.20	103.00
35.0	26.70	34.20	43.10	53.70	66.20	80.70	87.10	97.40
40.0	25.00	32.10	40.60	50.60	62.30	75.90	82.00	91.70
45.0	23.30	30.00	38.00	47.40	58.30	71.10	76.80	85.90
50.0	21.60	27.90	35.40	44.10	54.40	66.30	71.60	80.10
55.0	19.85	25.80	32.80	40.90	50.40	61.50	66.40	74.30
60.0		23.70	30.10	37.60	46.40	56.60	61.10	68.40
65.0			27.40	34.30	42.30	51.70	55.80	62.50
70.0			24.70	31.00	38.20	46.70	50.50	56.60
75.0				27.60	34.10	41.70	45.10	50.60
80.0				24.20	29.90	36.70	39.70	44.60

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	8.44	8.90	9.14					
15.0	9.05	9.70	10.15	10.30				
20.0	9.65	10.45	11.10	11.50	11.60			
25.0	10.20	11.20	12.05	12.65	13.00	13.00	12.90	
30.0	10.75	11.90	12.95	13.75	14.35	14.65	14.65	14.55
35.0	11.25	12.55	13.80	14.85	15.65	16.20	16.35	16.45
40.0	11.70	13.20	14.60	15.85	16.90	17.70	17.95	18.25
45.0	12.15	13.75	15.35	16.80	18.10	19.15	19.50	19.95
50.0	12.50	14.25	16.00	17.70	19.20	20.50	21.00	21.60
55.0	12.85	14.75	16.65	18.50	20.20	21.80	22.40	23.20
60.0		15.15	17.20	19.25	21.20	23.00	23.70	24.70
65.0			17.70	19.95	22.10	24.20	24.90	26.10
70.0			18.10	20.50	22.90	25.20	26.10	27.40
75.0				21.10	23.60	26.20	27.10	28.60
80.0				21.50	24.30	27.00	28.10	29.70

50 Hz 6MM-30 R134a

Cond °C	Current at 400 V, A							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	23.54	23.88	24.01					
15.0	23.99	24.55	24.94	25.05				
20.0	24.48	25.25	25.90	26.30	26.36			
25.0	24.99	25.98	26.87	27.57	27.96	27.93	27.77	
30.0	25.51	26.71	27.86	28.84	29.56	29.90	29.90	29.75
35.0	26.02	27.43	28.83	30.10	31.15	31.85	32.01	32.11
40.0	26.52	28.14	29.78	31.34	32.71	33.78	34.09	34.44
45.0	26.99	28.81	30.70	32.54	34.23	35.66	36.13	36.72
50.0	27.42	29.44	31.57	33.69	35.70	37.49	38.12	38.95
55.0	27.79	30.01	32.37	34.77	37.10	39.25	40.03	41.11
60.0		30.51	33.11	35.78	38.42	40.93	41.86	43.18
65.0			33.75	36.70	39.66	42.51	43.60	45.15
70.0			34.30	37.52	40.78	43.99	45.23	47.02
75.0				38.22	41.79	45.34	46.73	48.76
80.0				38.79	42.67	46.56	48.10	50.37

Cond °C	Suction Mass Flow, g/s							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	171.50	218.00	275.00					
15.0	169.00	215.00	272.00	340.00				
20.0	166.50	212.00	268.00	336.00	416.00			
25.0	164.00	210.00	265.00	332.00	411.00	505.00	546.00	
30.0	161.00	207.00	261.00	327.00	406.00	498.00	540.00	607.00
35.0	158.00	203.00	258.00	323.00	400.00	492.00	533.00	599.00
40.0	155.00	200.00	254.00	318.00	394.00	485.00	525.00	591.00
45.0	151.50	196.00	249.00	313.00	388.00	477.00	517.00	582.00
50.0	148.00	192.00	245.00	307.00	381.00	469.00	509.00	573.00
55.0	143.50	187.50	240.00	301.00	374.00	461.00	499.00	563.00
60.0		183.00	234.00	294.00	366.00	451.00	490.00	552.00
65.0			228.00	287.00	358.00	441.00	479.00	541.00
70.0			221.00	279.00	348.00	430.00	468.00	529.00
75.0				271.00	338.00	419.00	455.00	516.00
80.0				261.00	327.00	407.00	443.00	503.00

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /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 (MT), dBA	71
Sound Power (MT), dBA	82
Sound Power with Sound Shell (MT), dBA	67
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	1430
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**

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 %
Discharge Shut-off	Angle valve
Copeland Compressor Electronic module	Modbus extension module

### MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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