



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 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	12.5	15.0	20.0	25.0
10.0	43.80	55.20	69.10									
15.0	41.50	52.40	65.80	82.00								
20.0	39.10	49.70	62.50	78.00	96.50							
25.0	36.70	46.80	59.10	73.90	91.50	112.50	121.50					
30.0	34.40	44.00	55.70	69.80	86.50	106.00	115.00	129.50	142.00			
35.0	32.00	41.20	52.30	65.60	81.50	100.00	108.50	122.00	134.00			
40.0	29.60	38.30	48.90	61.40	76.40	94.00	102.00	114.50	126.00			
45.0	27.20	35.50	45.40	57.20	71.30	87.80	95.20	107.00	118.00			
50.0	24.80	32.60	41.90	53.00	66.10	81.60	88.50	99.60	109.50			
55.0	22.50	29.80	38.50	48.80	61.00	75.30	81.70	92.10	101.50			
60.0		27.00	35.10	44.60	55.80	69.10	75.00	84.60	93.20			
65.0			31.60	40.40	50.70	62.80	68.20	77.00	85.00			
70.0			28.20	36.20	45.50	56.60	61.50	69.50	76.70			
75.0				32.00	40.40	50.30	54.80	61.90	68.50			
80.0				27.80	35.30	44.10	48.00	54.40	60.20			

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	11.20	11.75	12.00									
15.0	12.05	12.90	13.45	13.70								
20.0	12.85	13.90	14.75	15.30	15.50							
25.0	13.50	14.80	15.95	16.80	17.35	17.50	17.45					
30.0	14.15	15.60	17.00	18.15	19.05	19.60	19.70	19.70	19.60			
35.0	14.65	16.30	17.90	19.40	20.60	21.60	21.80	22.10	22.20			
40.0	15.15	16.95	18.75	20.50	22.00	23.30	23.80	24.30	24.60			
45.0	15.60	17.55	19.50	21.50	23.30	25.00	25.50	26.30	26.80			
50.0	16.00	18.05	20.20	22.40	24.50	26.40	27.20	28.20	28.90			
55.0	16.40	18.55	20.80	23.20	25.50	27.80	28.70	29.90	30.80			
60.0		19.00	21.40	23.90	26.50	29.00	30.00	31.50	32.60			
65.0			21.90	24.60	27.40	30.20	31.30	32.90	34.20			
70.0			22.50	25.30	28.20	31.20	32.50	34.20	35.70			
75.0				25.90	29.00	32.20	33.50	35.50	37.10			
80.0				26.50	29.70	33.10	34.50	36.60	38.40			

Cond °C	Current at 400 V, A											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	38.09	38.58	38.84									
15.0	38.76	39.42	39.90	40.13								
20.0	39.39	40.23	40.95	41.46	41.66							
25.0	39.99	41.01	41.97	42.76	43.30	43.48	43.44					
30.0	40.54	41.76	42.95	44.03	44.91	45.49	45.62	45.67	45.59			
35.0	41.05	42.45	43.89	45.27	46.49	47.46	47.76	48.09	48.25			
40.0	41.49	43.09	44.78	46.45	48.02	49.39	49.87	50.48	50.88			
45.0	41.87	43.67	45.60	47.58	49.50	51.28	51.93	52.81	53.46			
50.0	42.16	44.17	46.36	48.64	50.92	53.10	53.93	55.10	55.99			
55.0	42.38	44.59	47.04	49.63	52.27	54.87	55.87	57.32	58.47			
60.0		44.92	47.64	50.54	53.54	56.55	57.74	59.47	60.87			
65.0			48.13	51.36	54.73	58.16	59.52	61.55	63.20			
70.0			48.53	52.08	55.82	59.67	61.22	63.53	65.44			
75.0				52.69	56.81	61.09	62.82	65.43	67.59			
80.0				53.18	57.69	62.39	64.32	67.22	69.64			

Cond °C	Suction Mass Flow, g/s											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
10.0	214.00	270.00	340.00									
15.0	210.00	266.00	335.00	420.00								
20.0	205.00	261.00	330.00	414.00	515.00							
25.0	200.00	256.00	325.00	408.00	508.00	628.00	682.00					
30.0	195.00	251.00	319.00	401.00	501.00	619.00	673.00	760.00	840.00			
35.0	189.50	245.00	312.00	394.00	493.00	610.00	663.00	750.00	829.00			
40.0	183.50	239.00	306.00	386.00	484.00	600.00	652.00	738.00	817.00			
45.0	177.00	232.00	298.00	378.00	474.00	589.00	641.00	726.00	804.00			
50.0	170.00	225.00	290.00	369.00	464.00	577.00	629.00	713.00	790.00			
55.0	163.00	217.00	282.00	359.00	453.00	565.00	615.00	698.00	774.00			
60.0		209.00	272.00	349.00	441.00	551.00	601.00	683.00	758.00			
65.0			263.00	338.00	428.00	537.00	586.00	666.00	741.00			
70.0			252.00	326.00	415.00	521.00	570.00	649.00	723.00			
75.0				314.00	400.00	505.00	553.00	631.00	704.00			
80.0				301.00	386.00	489.00	536.00	614.00	686.00			

**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	773/547
Height, mm	450
Net Weight, kg	230
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 (MT), dBA	75
Sound Power (MT), dBA	86
Sound Power with Sound Shell (MT), dBA	69
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	92.9
Locked Rotor Current, A	416
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	YY/Y	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	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	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
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00