



Minimum Evaporating Temp. With:		
<span style="color: pink;">—</span> 20 K Suction Superheat	<span style="color: yellow;">—</span> 20 °C Suction Gas Return	<span style="color: red;">—</span> 0 °C Suction Gas Return
<span style="color: blue;">—</span> Maximum Evaporating Temperature		

Suction Return Temperature 18.3°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	5.0	7.0	10.0	12.5
10.0	20.60	27.10	35.20	45.30	57.50	71.90	88.90						
15.0	19.55	26.00	34.00	43.80	55.60	69.60	85.90	105.00					
20.0	18.35	24.80	32.60	42.10	53.50	66.90	82.60	101.00	121.50	145.50			
25.0		23.40	31.00	40.20	51.10	64.00	79.00	96.40	116.50	139.00	149.00	165.00	179.00
30.0		21.90	29.30	38.10	48.50	60.80	75.10	91.60	110.50	132.50	142.00	157.00	170.50
35.0			27.40	35.80	45.70	57.30	70.90	86.60	104.50	125.00	134.00	148.50	161.50
40.0				33.30	42.70	53.70	66.40	81.20	98.20	117.50	126.00	139.50	152.00
45.0				30.70	39.50	49.80	61.70	75.60	91.50	109.50	117.50	130.50	142.00
50.0					36.20	45.70	56.80	69.70	84.50	101.50	109.00	121.00	131.50
55.0					32.70	41.50	51.70	63.60	77.30	93.10	100.00		
60.0						37.00	46.30	57.20	69.80				
62.0						35.20	44.20	54.60	66.70				

Cond °C	Power, kW												
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
10.0	9.23	10.30	11.20	11.90	12.40	12.60	12.55						
15.0	9.68	10.95	12.10	13.05	13.80	14.35	14.60	14.60					
20.0	10.05	11.55	12.90	14.15	15.20	16.00	16.60	16.90	16.90	16.60			
25.0		12.05	13.65	15.10	16.45	17.60	18.50	19.15	19.55	19.60	19.50	19.30	19.00
30.0		12.45	14.30	16.00	17.60	19.05	20.30	21.30	22.00	22.50	22.60	22.60	22.50
35.0			14.80	16.80	18.70	20.40	22.00	23.30	24.50	25.30	25.50	25.80	26.00
40.0				17.45	19.60	21.70	23.50	25.20	26.70	28.00	28.40	28.90	29.30
45.0				18.00	20.40	22.80	25.00	27.00	28.90	30.50	31.10	31.90	32.40
50.0					21.10	23.70	26.30	28.60	30.90	32.90	33.60	34.70	35.50
55.0					21.60	24.50	27.40	30.10	32.70	35.10	36.00		
60.0						25.10	28.30	31.40	34.40				
62.0						25.30	28.60	31.90	35.00				

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	5.0	7.0	10.0	12.5
10.0	28.47	29.34	30.15	30.84	31.33	31.54	31.41						
15.0	28.82	29.87	30.91	31.87	32.68	33.25	33.52	33.41					
20.0	29.16	30.41	31.69	32.93	34.06	35.00	35.69	36.04	35.99	35.46			
25.0		30.90	32.43	33.97	35.44	36.77	37.88	38.71	39.17	39.20	39.08	38.73	38.28
30.0		31.32	33.12	34.97	36.79	38.51	40.07	41.38	42.38	42.98	43.10	43.12	43.00
35.0			33.71	35.88	38.07	40.20	42.21	44.02	45.56	46.75	47.11	47.52	47.73
40.0				36.67	39.24	41.80	44.27	46.59	48.69	50.48	51.09	51.90	52.44
45.0				37.31	40.27	43.26	46.22	49.06	51.72	54.13	55.00	56.20	57.09
50.0					41.13	44.57	48.02	51.40	54.64	57.67	58.80	60.41	61.65
55.0					41.77	45.68	49.63	53.56	57.39	61.06	62.46		
60.0						46.55	51.02	55.51	59.95				
62.0						46.83	51.51	56.23	60.91				

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	5.0	7.0	10.0	12.5
10.0	94.80	125.00	163.00	210.00	268.00	337.00	419.00						
15.0	93.10	124.00	163.00	211.00	268.00	338.00	419.00	516.00					
20.0	90.80	122.50	162.00	210.00	268.00	337.00	419.00	514.00	627.00	757.00			
25.0		120.50	160.50	209.00	266.00	335.00	416.00	512.00	623.00	754.00	811.00	905.00	990.00
30.0		117.50	157.50	206.00	264.00	332.00	413.00	508.00	619.00	748.00	806.00	899.00	984.00
35.0			154.00	202.00	260.00	327.00	408.00	502.00	612.00	741.00	799.00	892.00	977.00
40.0				197.50	254.00	322.00	401.00	494.00	604.00	732.00	790.00	883.00	967.00
45.0				191.50	248.00	314.00	393.00	485.00	594.00	721.00	779.00	871.00	956.00
50.0					240.00	306.00	383.00	474.00	582.00	708.00	765.00	858.00	943.00
55.0					231.00	295.00	371.00	461.00	567.00	693.00	750.00		
60.0						283.00	357.00	446.00	551.00				
62.0						278.00	351.00	439.00	544.00				

### 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	219
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, dBA	74
Sound Power, dBA	85
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1397
Refrigerant's classification	A1

### COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	71.4
Locked Rotor Current, A	321
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**

<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