



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	41.80	52.40	65.30									
15.0	39.50	49.60	61.90	76.70								
20.0	37.10	46.80	58.50	72.60	89.30							
25.0	34.90	44.10	55.20	68.50	84.30	103.00	111.00					
30.0	32.60	41.30	51.90	64.50	79.40	96.90	104.50	117.00	128.50			
35.0	30.40	38.70	48.60	60.50	74.50	90.90	98.20	110.00	120.50			
40.0	28.30	36.00	45.40	56.50	69.60	85.00	91.90	103.00	113.00			
45.0	26.20	33.50	42.20	52.50	64.80	79.20	85.60	95.90	105.00			
50.0	24.20	30.90	39.00	48.60	60.00	73.40	79.30	88.90	97.50			
55.0	22.20	28.50	35.90	44.80	55.30	67.60	73.10	81.90	89.90			
60.0		26.10	32.90	41.00	50.60	61.90	66.90	75.00	82.30			
65.0			29.90	37.30	46.00	56.20	60.80	68.10	74.80			
70.0			27.00	33.60	41.40	50.60	54.70	61.40	67.40			
75.0				30.00	37.00	45.10	48.80	54.70	60.00			
80.0				26.50	32.60	39.70	42.90	48.00	52.70			

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	10.25	10.80	11.00									
15.0	10.90	11.65	12.15	12.25								
20.0	11.45	12.40	13.20	13.65	13.65							
25.0	11.90	13.05	14.10	14.85	15.25	15.20	15.00					
30.0	12.30	13.65	14.90	15.95	16.70	17.05	17.05	16.90	16.60			
35.0	12.65	14.15	15.60	16.90	18.00	18.75	18.90	19.05	19.00			
40.0	13.00	14.60	16.20	17.80	19.15	20.30	20.60	21.00	21.20			
45.0	13.40	15.05	16.80	18.60	20.20	21.70	22.20	22.80	23.20			
50.0	13.75	15.50	17.40	19.35	21.20	23.00	23.60	24.50	25.10			
55.0	14.20	16.00	17.95	20.10	22.20	24.20	25.00	26.10	26.90			
60.0		16.50	18.55	20.80	23.10	25.40	26.30	27.60	28.60			
65.0			19.20	21.50	24.00	26.60	27.60	29.00	30.20			
70.0			19.90	22.30	24.90	27.70	28.80	30.40	31.70			
75.0				23.20	25.90	28.80	30.00	31.80	33.30			
80.0				24.10	26.90	30.00	31.20	33.20	34.80			

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	28.57	29.11	29.32									
15.0	29.21	29.96	30.46	30.56								
20.0	29.76	30.72	31.49	31.94	31.94							
25.0	30.25	31.39	32.43	33.22	33.63	33.52	33.30					
30.0	30.69	32.00	33.29	34.40	35.21	35.58	35.57	35.37	35.01			
35.0	31.09	32.56	34.08	35.51	36.71	37.54	37.74	37.87	37.81			
40.0	31.46	33.08	34.83	36.56	38.13	39.42	39.82	40.27	40.50			
45.0	31.82	33.58	35.54	37.56	39.49	41.22	41.82	42.59	43.10			
50.0	32.19	34.08	36.23	38.52	40.81	42.96	43.75	44.83	45.63			
55.0	32.58	34.57	36.91	39.47	42.09	44.66	45.64	47.02	48.09			
60.0		35.09	37.61	40.41	43.36	46.33	47.48	49.17	50.50			
65.0			38.32	41.36	44.62	47.98	49.31	51.28	52.88			
70.0			39.07	42.33	45.90	49.63	51.13	53.39	55.23			
75.0				43.34	47.20	51.29	52.96	55.49	57.58			
80.0				44.41	48.54	52.98	54.82	57.60	59.94			

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	204.00	257.00	321.00									
15.0	199.50	252.00	315.00	393.00								
20.0	195.00	246.00	309.00	386.00	477.00							
25.0	190.00	241.00	303.00	378.00	468.00	575.00	623.00					
30.0	185.50	236.00	297.00	371.00	459.00	565.00	612.00	689.00	760.00			
35.0	180.50	230.00	290.00	363.00	450.00	554.00	601.00	677.00	746.00			
40.0	175.50	224.00	284.00	355.00	441.00	543.00	589.00	664.00	732.00			
45.0	170.50	219.00	277.00	347.00	431.00	531.00	576.00	650.00	717.00			
50.0	165.50	213.00	270.00	339.00	421.00	519.00	563.00	636.00	702.00			
55.0	161.00	207.00	263.00	330.00	410.00	507.00	550.00	621.00	686.00			
60.0		201.00	256.00	321.00	400.00	493.00	536.00	605.00	669.00			
65.0			249.00	312.00	389.00	480.00	522.00	590.00	652.00			
70.0			242.00	303.00	377.00	467.00	507.00	573.00	634.00			
75.0				295.00	366.00	453.00	492.00	557.00	617.00			
80.0				287.00	356.00	440.00	478.00	541.00	600.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	135
Bore/Stroke, mm	75.7/57.5
Length/Width, mm	725/547
Height, mm	450
Net Weight, kg	223
Suction, inch	2 1/8
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	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	68
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	81.5
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 %
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	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
AWC	208-230 V / 3~ / 60 Hz	230	YY/Y	Y	2.19
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