



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	36.90	46.40	58.00									
15.0	34.80	43.80	54.90	68.20								
20.0	32.70	41.30	51.80	64.50	79.50							
25.0	30.60	38.80	48.80	60.80	75.00	91.80	99.20					
30.0	28.60	36.40	45.80	57.10	70.60	86.40	93.40	105.00	115.00			
35.0	26.60	34.00	42.90	53.60	66.20	81.00	87.70	98.40	108.00			
40.0	24.70	31.60	40.00	50.00	61.80	75.80	82.00	92.00	101.00			
45.0	22.70	29.30	37.20	46.50	57.60	70.60	76.30	85.70	94.20			
50.0	20.90	27.00	34.40	43.10	53.30	65.40	70.80	79.50	87.30			
55.0	19.00	24.80	31.60	39.70	49.20	60.30	65.30	73.30	80.60			
60.0		22.60	28.90	36.30	45.00	55.30	59.80	67.20	73.90			
65.0			26.20	33.00	40.90	50.30	54.50	61.20	67.30			
70.0			23.50	29.70	36.90	45.40	49.10	55.20	60.70			
75.0				26.40	32.90	40.50	43.90	49.30	54.20			
80.0				23.20	29.00	35.70	38.70	43.50	47.80			

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	8.39	8.73	8.89									
15.0	9.16	9.67	10.05	10.20								
20.0	9.85	10.55	11.10	11.45	11.60							
25.0	10.50	11.30	12.05	12.65	13.05	13.20	13.15					
30.0	11.05	12.05	13.00	13.80	14.40	14.80	14.90	14.90	14.85			
35.0	11.55	12.70	13.80	14.85	15.70	16.35	16.55	16.75	16.80			
40.0	12.00	13.30	14.60	15.80	16.90	17.80	18.10	18.45	18.70			
45.0	12.40	13.85	15.30	16.70	18.00	19.15	19.55	20.10	20.50			
50.0	12.75	14.35	15.95	17.55	19.05	20.50	21.00	21.70	22.20			
55.0	13.05	14.80	16.55	18.35	20.10	21.70	22.30	23.10	23.80			
60.0		15.15	17.10	19.05	21.00	22.80	23.50	24.60	25.30			
65.0			17.60	19.75	21.90	23.90	24.70	25.90	26.80			
70.0			18.05	20.40	22.70	25.00	25.90	27.20	28.20			
75.0				20.90	23.40	25.90	26.90	28.40	29.60			
80.0				21.50	24.20	26.90	27.90	29.60	30.90			

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	27.42	27.76	27.92									
15.0	28.08	28.57	28.91	29.04								
20.0	28.70	29.33	29.87	30.24	30.34							
25.0	29.28	30.07	30.80	31.40	31.77	31.85	31.78					
30.0	29.82	30.76	31.69	32.52	33.17	33.57	33.64	33.62	33.50			
35.0	30.32	31.42	32.54	33.61	34.54	35.26	35.46	35.67	35.75			
40.0	30.78	32.03	33.35	34.66	35.87	36.91	37.26	37.69	37.96			
45.0	31.19	32.60	34.12	35.67	37.17	38.53	39.02	39.68	40.14			
50.0	31.55	33.13	34.85	36.64	38.42	40.11	40.74	41.62	42.29			
55.0	31.87	33.60	35.53	37.56	39.63	41.65	42.42	43.53	44.40			
60.0		34.03	36.16	38.44	40.80	43.14	44.06	45.40	46.47			
65.0			36.75	39.28	41.92	44.60	45.66	47.22	48.49			
70.0			37.28	40.06	43.00	46.00	47.21	49.01	50.48			
75.0				40.79	44.02	47.36	48.72	50.74	52.42			
80.0				41.47	45.00	48.68	50.17	52.43	54.31			

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	180.50	227.00	285.00									
15.0	176.00	222.00	280.00	349.00								
20.0	171.50	217.00	274.00	342.00	425.00							
25.0	167.00	212.00	268.00	336.00	417.00	513.00	557.00					
30.0	162.00	207.00	262.00	329.00	408.00	504.00	546.00	616.00	680.00			
35.0	157.50	202.00	256.00	322.00	400.00	494.00	536.00	605.00	668.00			
40.0	153.00	197.00	250.00	314.00	392.00	484.00	525.00	593.00	655.00			
45.0	148.00	191.50	244.00	307.00	383.00	473.00	514.00	581.00	642.00			
50.0	143.00	186.00	238.00	300.00	374.00	463.00	503.00	568.00	629.00			
55.0	137.50	180.50	231.00	292.00	365.00	452.00	491.00	556.00	615.00			
60.0		174.50	224.00	284.00	355.00	441.00	479.00	543.00	601.00			
65.0			218.00	276.00	346.00	429.00	467.00	529.00	586.00			
70.0			210.00	268.00	336.00	418.00	455.00	516.00	572.00			
75.0				259.00	326.00	407.00	443.00	503.00	558.00			
80.0				251.00	317.00	396.00	431.00	490.00	545.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /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 (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	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

<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