



Minimum Evaporating Temp. With:

— 20 K Suction Superheat    
 — 20 °C Suction Gas Return    
 — 0 °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												
	-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	14.00	18.75	24.60	31.70	40.10	50.10	61.70						
15.0	13.10	17.75	23.40	30.10	38.20	47.70	58.80	71.70					
20.0	12.15	16.65	22.10	28.50	36.30	45.30	55.90	68.20	82.20	98.30			
25.0		15.50	20.70	26.90	34.30	42.90	53.00	64.60	78.00	93.30	100.00	110.50	120.00
30.0		14.30	19.30	25.20	32.20	40.40	50.00	61.10	73.80	88.40	94.70	105.00	114.00
35.0			17.85	23.50	30.20	37.90	47.00	57.50	69.60	83.40	89.50	99.10	107.50
40.0				21.70	28.00	35.40	44.00	53.90	65.30	78.40	84.20	93.30	101.50
45.0				19.90	25.90	32.80	40.90	50.30	61.10	73.40	78.90	87.50	95.30
50.0					23.70	30.20	37.80	46.60	56.80	68.40	73.50	81.70	89.00
55.0					21.40	27.50	34.70	42.90	52.50	63.40	68.20		
60.0						24.80	31.50	39.20	48.10				
62.0						23.80	30.20	37.70	46.40				

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	6.45	7.21	7.89	8.47	8.89	9.12	9.12						
15.0	6.61	7.49	8.32	9.05	9.65	10.05	10.25	10.20					
20.0	6.73	7.75	8.72	9.62	10.40	11.00	11.40	11.55	11.45	11.00			
25.0		7.95	9.08	10.15	11.10	11.90	12.50	12.90	13.00	12.80	12.65	12.30	11.85
30.0		8.11	9.39	10.60	11.75	12.75	13.60	14.20	14.55	14.65	14.55	14.35	14.10
35.0			9.64	11.05	12.40	13.60	14.65	15.50	16.10	16.40	16.45	16.40	16.30
40.0				11.40	12.95	14.35	15.60	16.70	17.55	18.15	18.30	18.45	18.45
45.0				11.70	13.40	15.05	16.55	17.85	19.00	19.85	20.10	20.40	20.60
50.0					13.80	15.65	17.40	18.95	20.30	21.50	21.90	22.30	22.70
55.0					14.10	16.15	18.15	19.95	21.60	23.00	23.50		
60.0						16.60	18.80	20.90	22.80				
62.0						16.70	19.00	21.20	23.20				

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	19.01	19.48	20.02	20.54	20.97	21.22	21.20						
15.0	19.08	19.67	20.35	21.05	21.68	22.15	22.39	22.30					
20.0	19.15	19.88	20.72	21.60	22.44	23.15	23.65	23.86	23.69	23.06			
25.0		20.07	21.09	22.17	23.24	24.20	24.98	25.48	25.64	25.37	25.11	24.57	23.96
30.0		20.23	21.43	22.73	24.03	25.26	26.32	27.15	27.65	27.74	27.64	27.34	26.93
35.0			21.72	23.24	24.80	26.30	27.67	28.82	29.68	30.15	30.21	30.15	29.96
40.0				23.69	25.51	27.30	28.99	30.48	31.70	32.57	32.79	32.99	33.01
45.0				24.04	26.14	28.23	30.25	32.10	33.70	34.97	35.37	35.83	36.08
50.0					26.66	29.07	31.43	33.64	35.64	37.33	37.90	38.63	39.11
55.0					27.04	29.78	32.49	35.09	37.49	39.62	40.37		
60.0						30.35	33.42	36.42	39.24				
62.0						30.52	33.75	36.90	39.90				

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	64.40	86.60	114.00	147.00	187.00	235.00	291.00						
15.0	62.50	84.70	112.00	145.00	184.50	232.00	287.00	352.00					
20.0	60.10	82.50	109.50	142.50	181.50	228.00	283.00	348.00	423.00	511.00			
25.0		79.90	107.00	139.50	178.50	225.00	279.00	343.00	418.00	505.00	544.00	607.00	664.00
30.0		76.70	104.00	136.50	175.00	221.00	275.00	338.00	413.00	500.00	538.00	601.00	658.00
35.0			100.50	133.00	171.00	217.00	270.00	333.00	408.00	494.00	533.00	595.00	652.00
40.0				129.00	167.00	212.00	265.00	328.00	402.00	488.00	527.00	590.00	647.00
45.0				124.00	162.50	207.00	260.00	323.00	396.00	483.00	522.00	584.00	642.00
50.0					157.00	202.00	255.00	317.00	391.00	477.00	516.00	580.00	638.00
55.0					151.00	196.00	249.00	311.00	385.00	472.00	512.00		
60.0						190.00	243.00	306.00	380.00				
62.0						187.50	241.00	304.00	378.00				

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m <sup>3</sup> /h	78.2
Bore/Stroke, mm	71.5/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	188
Suction, inch	2 1/8
Discharge, inch	1 1/8
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	73
Sound Power, dBA	84
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	46.6
Locked Rotor Current, A	230
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

<p>Mounting Parts          CoreSense Protection (-P)          Oil Pressure Switch (-P)          Copeland Compressor Electronic (-N)</p>	<p>Spring          Motor protection          OPS2 Sensor          Oil pressure, motor and discharge line temperature protection;          advanced diagnostics features and power measurement</p>
---	---

### **ACCESSORIES OPTIONAL**

<p>Additional Cooling          Capacity Control          Crankcase Heater          Oil Pressure Switch          Adapter Kit          Check Valve          Sound Attenuation          Mounting Parts          Copeland Compressor Electronic module</p>	<p>70 W Vertical Air Flow Fan          Capacity Steps 50%          100 W Internal          OPS2 Electronic Switch          For Parallel Operation          For unloaded start operation          Sound Shell          Rubber          Modbus extension module</p>
--	---

### **MOTOR OPTIONS**

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