



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 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											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	22.70	29.70	38.50	49.20	62.10	77.40	95.40	116.50				
15.0	21.00	27.90	36.40	46.80	59.10	73.70	90.80	110.50	133.50			
20.0	19.10	26.00	34.20	44.10	55.90	69.70	86.00	105.00	126.50	151.00	179.50	
25.0	17.20	23.90	31.80	41.20	52.40	65.50	80.90	98.60	119.00	142.50	169.00	180.50
30.0		21.70	29.30	38.20	48.80	61.10	75.50	92.20	111.50	133.50	158.50	169.50
35.0		19.45	26.70	35.10	45.00	56.50	69.90	85.50	103.50	124.00	147.50	157.50
40.0			24.00	31.90	41.00	51.70	64.10	78.50	95.20	114.50	136.00	145.50
45.0			21.30	28.60	37.00	46.80	58.20	71.40	86.70	104.50	124.50	133.50
50.0				25.20	32.90	41.70	52.10	64.10	78.00	94.10	112.50	120.50
55.0				21.80	28.70	36.60	45.90	56.60	69.20	83.70	100.50	108.00
60.0					24.50	31.50	39.60	49.10	60.20	73.20	88.20	
62.0					22.80	29.40	37.10	46.00	56.60	68.90		

Cond °C	Power, kW											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	10.75	12.30	13.65	14.85	15.95	16.85	17.65	18.35				
15.0	11.15	12.95	14.50	15.90	17.15	18.20	19.15	19.95	20.60			
20.0	11.40	13.45	15.30	16.90	18.35	19.60	20.70	21.60	22.40	23.10	23.70	
25.0	11.50	13.85	15.95	17.85	19.50	21.00	22.30	23.40	24.40	25.20	25.90	26.10
30.0		14.05	16.50	18.70	20.60	22.40	23.90	25.30	26.40	27.40	28.30	28.60
35.0		14.05	16.85	19.40	21.70	23.70	25.50	27.10	28.50	29.80	30.80	31.20
40.0			17.05	19.95	22.60	25.00	27.10	29.00	30.70	32.20	33.50	33.90
45.0			17.00	20.30	23.40	26.10	28.60	30.90	32.90	34.60	36.20	36.70
50.0				20.50	23.90	27.10	30.00	32.60	35.00	37.10	39.00	39.60
55.0				20.30	24.30	28.00	31.30	34.30	37.10	39.50	41.80	42.60
60.0					24.40	28.60	32.40	35.90	39.10	41.90	44.60	
62.0					24.40	28.80	32.80	36.40	39.80	42.90		

Cond °C	Current at 400 V, A											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	29.32	30.51	31.89	33.33	34.72	35.93	36.84	37.33				
15.0	29.61	31.01	32.62	34.32	35.99	37.51	38.76	39.61	39.94			
20.0	29.87	31.51	33.38	35.38	37.36	39.22	40.83	42.07	42.82	42.96	42.36	
25.0	30.05	31.96	34.13	36.44	38.77	41.00	43.00	44.66	45.86	46.47	46.37	46.10
30.0		32.30	34.79	37.45	40.16	42.78	45.21	47.33	49.00	50.11	50.53	50.48
35.0		32.47	35.31	38.35	41.46	44.52	47.41	50.00	52.17	53.81	54.80	54.98
40.0			35.64	39.09	42.63	46.15	49.52	52.62	55.33	57.53	59.10	59.52
45.0			35.70	39.59	43.60	47.61	51.49	55.13	58.41	61.20	63.38	64.06
50.0				39.81	44.31	48.84	53.26	57.48	61.35	64.76	67.58	68.53
55.0				39.68	44.70	49.78	54.78	59.59	64.09	68.15	71.65	72.87
60.0					44.72	50.37	55.98	61.42	66.57	71.31	75.52	
62.0					44.60	50.50	56.36	62.06	67.48	72.50		

Cond °C	Suction Mass Flow, g/s											
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	127.00	167.00	217.00	278.00	352.00	441.00	547.00	672.00				
15.0	122.00	163.50	214.00	275.00	350.00	438.00	544.00	667.00	812.00			
20.0	116.50	158.50	210.00	272.00	346.00	434.00	538.00	662.00	806.00	974.00	1170.00	
25.0	110.00	153.00	205.00	266.00	340.00	428.00	532.00	654.00	797.00	964.00	1160.00	1247.00
30.0		146.50	198.50	260.00	333.00	420.00	523.00	644.00	786.00	953.00	1148.00	1235.00
35.0		138.50	191.00	252.00	325.00	411.00	512.00	632.00	773.00	939.00	1133.00	1221.00
40.0			182.50	243.00	315.00	400.00	500.00	618.00	758.00	923.00	1117.00	1204.00
45.0			172.50	233.00	304.00	387.00	486.00	602.00	741.00	904.00	1098.00	1186.00
50.0				222.00	291.00	373.00	470.00	585.00	721.00	884.00	1078.00	1166.00
55.0				209.00	278.00	357.00	452.00	565.00	701.00	863.00	1058.00	1147.00
60.0					263.00	341.00	434.00	546.00	680.00	843.00	1040.00	
62.0					257.00	335.00	427.00	538.00	673.00	836.00		

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 (LT), dBA	79
Sound Power (LT), dBA	90
Sound Power with Sound Shell (LT), dBA	75
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	74
Sound Power (MT), dBA	85
Sound Power with Sound Shell (MT), dBA	71
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	3922
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	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