



Minimum Evaporating Temp. With:

- 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											
	-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	15.45	20.40	26.40	33.80	42.60	52.90	65.00	79.10				
15.0	14.20	19.00	24.80	31.80	40.20	50.00	61.50	74.80	90.10			
20.0	12.90	17.55	23.10	29.80	37.70	47.10	57.90	70.50	84.90	101.50	120.00	
25.0	11.60	16.10	21.40	27.80	35.20	44.00	54.20	66.00	79.60	95.00	112.50	120.00
30.0		14.60	19.65	25.60	32.60	40.80	50.40	61.50	74.20	88.70	105.00	112.50
35.0		13.05	17.85	23.50	30.00	37.60	46.50	56.80	68.70	82.20	97.60	104.50
40.0			16.05	21.30	27.30	34.40	42.60	52.10	63.10	75.60	89.90	96.20
45.0			14.25	19.05	24.60	31.10	38.60	47.30	57.40	69.00	82.20	88.00
50.0				16.85	21.90	27.80	34.60	42.50	51.70	62.20	74.40	79.70
55.0				14.60	19.15	24.40	30.50	37.60	45.90	55.50	66.50	71.30
60.0					16.45	21.10	26.40	32.70	40.10	48.60	58.50	
62.0					15.35	19.75	24.80	30.80	37.70	45.90		

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	7.21	8.17	9.06	9.81	10.40	10.75	10.85	10.60				
15.0	7.39	8.48	9.53	10.45	11.25	11.85	12.20	12.25	12.00			
20.0	7.51	8.73	9.92	11.05	12.05	12.90	13.50	13.85	13.85	13.50	12.75	
25.0	7.57	8.91	10.25	11.55	12.75	13.80	14.65	15.30	15.60	15.60	15.20	14.90
30.0		9.04	10.50	12.00	13.35	14.65	15.75	16.65	17.25	17.55	17.50	17.35
35.0		9.10	10.70	12.35	13.90	15.40	16.70	17.85	18.80	19.40	19.70	19.70
40.0			10.85	12.60	14.35	16.05	17.60	19.00	20.20	21.10	21.80	21.90
45.0			10.90	12.80	14.75	16.60	18.40	20.00	21.50	22.70	23.70	24.00
50.0				12.95	15.00	17.10	19.10	21.00	22.70	24.20	25.50	25.90
55.0				13.00	15.25	17.50	19.70	21.80	23.80	25.60	27.20	27.80
60.0					15.40	17.80	20.20	22.50	24.80	26.90	28.80	
62.0					15.40	17.90	20.40	22.80	25.20	27.30		

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	19.32	20.25	21.20	22.08	22.81	23.31	23.49	23.29				
15.0	19.54	20.61	21.73	22.81	23.77	24.55	25.04	25.18	24.88			
20.0	19.68	20.89	22.18	23.48	24.69	25.74	26.55	27.04	27.13	26.73	25.77	
25.0	19.73	21.09	22.56	24.07	25.54	26.88	28.01	28.86	29.34	29.37	28.87	28.51
30.0		21.20	22.86	24.60	26.32	27.96	29.42	30.63	31.51	31.98	31.95	31.79
35.0		21.20	23.07	25.04	27.03	28.97	30.77	32.35	33.64	34.55	35.00	35.03
40.0			23.17	25.38	27.65	29.90	32.04	34.01	35.71	37.07	38.01	38.24
45.0			23.17	25.63	28.18	30.74	33.24	35.60	37.72	39.54	40.97	41.41
50.0				25.76	28.61	31.50	34.36	37.10	39.66	41.94	43.87	44.52
55.0				25.78	28.92	32.15	35.38	38.53	41.52	44.27	46.71	47.58
60.0					29.13	32.69	36.29	39.85	43.29	46.53	49.48	
62.0					29.17	32.88	36.63	40.36	43.98	47.40		

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	86.40	114.00	148.50	191.00	241.00	302.00	373.00	457.00				
15.0	82.80	111.00	145.50	187.50	238.00	298.00	368.00	451.00	548.00			
20.0	78.70	107.50	142.00	183.50	234.00	293.00	363.00	445.00	541.00	652.00	782.00	
25.0	74.00	103.00	138.00	179.00	229.00	287.00	356.00	437.00	532.00	643.00	772.00	830.00
30.0		98.30	133.00	174.00	223.00	281.00	349.00	429.00	523.00	633.00	762.00	819.00
35.0		93.10	128.00	168.50	217.00	274.00	341.00	420.00	513.00	622.00	751.00	808.00
40.0			122.00	162.50	210.00	266.00	332.00	410.00	502.00	611.00	738.00	796.00
45.0			115.50	155.50	202.00	257.00	322.00	399.00	490.00	598.00	725.00	783.00
50.0				148.00	194.00	248.00	312.00	388.00	478.00	585.00	712.00	770.00
55.0				140.50	185.50	238.00	301.00	376.00	465.00	572.00	700.00	758.00
60.0					176.50	228.00	290.00	364.00	453.00	560.00	690.00	
62.0					173.00	225.00	286.00	360.00	449.00	557.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	87.7
Bore/Stroke, mm	75.7/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	190
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 (LT), dBA	74
Sound Power (LT), dBA	85
Sound Power with Sound Shell (LT), dBA	72
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	71
Sound Power (MT), dBA	82
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	52.9
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>
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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>
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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