



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	12.25	16.40	21.50	27.70	35.20	44.00	54.30						
15.0	11.50	15.55	20.50	26.50	33.60	42.10	52.00	63.50					
20.0	10.70	14.60	19.40	25.10	32.00	40.10	49.60	60.60	73.20	87.60			
25.0		13.60	18.20	23.70	30.30	38.00	47.10	57.60	69.60	83.40	89.40	99.00	107.50
30.0		12.60	16.95	22.20	28.50	35.80	44.40	54.40	65.90	79.10	84.90	94.00	102.00
35.0			15.70	20.70	26.60	33.60	41.70	51.20	62.20	74.70	80.20	88.90	96.70
40.0				19.05	24.70	31.30	39.00	47.90	58.30	70.20	75.40	83.70	91.10
45.0				17.40	22.70	28.90	36.10	44.60	54.30	65.60	70.50	78.40	85.40
50.0					20.60	26.40	33.20	41.10	50.30	60.90	65.50	73.00	79.60
55.0					18.55	23.90	30.20	37.60	46.20	56.10	60.50		
60.0						21.40	27.20	34.10	42.00				
62.0						20.40	26.00	32.60	40.40				

50 Hz

4MH-25

R449A Dew Point

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	5.80	6.41	6.96	7.39	7.68	7.79	7.68						
15.0	6.00	6.73	7.41	8.01	8.48	8.79	8.91	8.79					
20.0	6.15	7.00	7.82	8.58	9.23	9.74	10.10	10.20	10.10	9.67			
25.0		7.23	8.18	9.09	9.92	10.65	11.20	11.55	11.70	11.55	11.40	11.15	10.80
30.0		7.40	8.49	9.55	10.55	11.45	12.20	12.80	13.20	13.35	13.35	13.25	13.05
35.0			8.73	9.94	11.10	12.20	13.20	14.00	14.65	15.10	15.20	15.25	15.20
40.0				10.25	11.60	12.85	14.05	15.10	16.00	16.70	16.90	17.15	17.30
45.0				10.50	12.00	13.45	14.85	16.15	17.30	18.25	18.55	19.00	19.25
50.0					12.35	14.00	15.55	17.05	18.45	19.70	20.10	20.70	21.10
55.0					12.60	14.40	16.20	17.90	19.55	21.00	21.60		
60.0						14.70	16.70	18.65	20.50				
62.0						14.80	16.90	18.90	20.90				

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	17.82	18.39	18.92	19.37	19.67	19.79	19.67						
15.0	17.99	18.64	19.29	19.89	20.38	20.71	20.84	20.70					
20.0	18.14	18.89	19.66	20.41	21.09	21.65	22.03	22.18	22.06	21.61			
25.0		19.11	20.02	20.93	21.81	22.59	23.23	23.68	23.88	23.79	23.66	23.35	22.99
30.0		19.30	20.34	21.42	22.50	23.51	24.42	25.17	25.70	25.98	26.00	25.94	25.78
35.0			20.61	21.87	23.15	24.40	25.58	26.63	27.51	28.15	28.33	28.51	28.57
40.0				22.25	23.74	25.24	26.70	28.06	29.27	30.29	30.63	31.06	31.34
45.0				22.55	24.26	26.01	27.74	29.42	30.98	32.38	32.88	33.57	34.06
50.0					24.68	26.68	28.71	30.71	32.62	34.41	35.07	36.01	36.73
55.0					24.99	27.26	29.57	31.90	34.17	36.35	37.18		
60.0						27.70	30.32	32.97	35.61				
62.0						27.84	30.58	33.37	36.16				

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	56.50	75.70	99.50	128.50	164.00	206.00	256.00						
15.0	54.90	74.30	98.10	127.00	162.50	204.00	254.00	312.00					
20.0	52.90	72.40	96.30	125.50	160.50	202.00	251.00	309.00	377.00	456.00			
25.0		70.20	94.10	123.00	157.50	199.00	248.00	306.00	373.00	452.00	487.00	543.00	595.00
30.0		67.50	91.40	120.00	154.50	195.50	244.00	302.00	369.00	447.00	482.00	539.00	590.00
35.0			88.30	117.00	151.00	192.00	240.00	297.00	364.00	442.00	477.00	534.00	586.00
40.0				113.00	147.00	187.50	235.00	292.00	359.00	437.00	472.00	529.00	581.00
45.0				108.50	142.50	182.50	230.00	286.00	353.00	431.00	466.00	523.00	576.00
50.0					137.00	176.50	224.00	280.00	346.00	425.00	460.00	518.00	570.00
55.0					131.00	170.50	217.00	273.00	339.00	418.00	454.00		
60.0						163.50	210.00	266.00	332.00				
62.0						160.50	207.00	263.00	329.00				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/h	71.4
Bore/Stroke, mm	68.3/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	187
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	72.5
Sound Power, dBA	83.5
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	41.6
Locked Rotor Current, A	199
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