



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	11.90	15.80	20.60	26.40	33.40	41.70	51.40	62.60				
15.0	10.90	14.70	19.35	24.90	31.60	39.50	48.70	59.40	71.60			
20.0	9.87	13.55	18.00	23.40	29.70	37.20	45.90	56.10	67.70	81.00	96.00	
25.0	8.79	12.35	16.65	21.70	27.70	34.80	43.10	52.70	63.70	76.20	90.50	96.70
30.0		11.15	15.20	20.00	25.70	32.40	40.10	49.20	59.50	71.40	84.80	90.70
35.0		9.90	13.75	18.30	23.60	29.90	37.10	45.60	55.30	66.40	79.10	84.60
40.0			12.30	16.55	21.50	27.30	34.10	41.90	51.00	61.40	73.30	78.40
45.0			10.80	14.75	19.30	24.70	30.90	38.20	46.60	56.30	67.30	72.20
50.0				12.90	17.15	22.00	27.80	34.40	42.20	51.10	61.30	65.80
55.0				11.10	14.90	19.35	24.60	30.60	37.70	45.80	55.20	59.30
60.0					12.70	16.65	21.30	26.70	33.10	40.50	49.00	
62.0					11.80	15.55	20.00	25.20	31.30	38.30		

50 Hz

4MH-25

R404A Dew Point

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	5.78	6.58	7.33	7.98	8.51	8.86	9.00	8.89				
15.0	5.97	6.86	7.73	8.52	9.20	9.72	10.05	10.15	9.95			
20.0	6.07	7.07	8.05	8.98	9.81	10.50	11.00	11.30	11.35	11.10	10.45	
25.0	6.10	7.20	8.30	9.37	10.35	11.20	11.90	12.40	12.70	12.65	12.30	12.05
30.0		7.25	8.48	9.68	10.80	11.85	12.75	13.45	13.95	14.15	14.10	13.95
35.0		7.23	8.58	9.92	11.20	12.45	13.50	14.45	15.15	15.65	15.80	15.80
40.0			8.61	10.10	11.55	12.95	14.25	15.35	16.30	17.05	17.50	17.55
45.0			8.58	10.20	11.85	13.40	14.90	16.25	17.40	18.40	19.10	19.30
50.0				10.25	12.05	13.80	15.50	17.05	18.45	19.70	20.70	21.00
55.0				10.25	12.20	14.15	16.05	17.80	19.45	20.90	22.20	22.60
60.0					12.30	14.45	16.50	18.55	20.40	22.10	23.70	
62.0					12.35	14.55	16.70	18.80	20.80	22.60		

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	18.13	18.75	19.39	20.00	20.51	20.86	21.01	20.89				
15.0	18.30	19.04	19.81	20.56	21.23	21.76	22.11	22.20	21.99			
20.0	18.38	19.24	20.15	21.06	21.91	22.64	23.20	23.53	23.56	23.25	22.53	
25.0	18.34	19.34	20.42	21.51	22.55	23.50	24.28	24.86	25.16	25.13	24.71	24.42
30.0		19.34	20.60	21.88	23.14	24.31	25.34	26.18	26.76	27.03	26.93	26.78
35.0		19.23	20.67	22.17	23.65	25.07	26.37	27.49	28.37	28.95	29.19	29.17
40.0			20.64	22.36	24.09	25.77	27.35	28.77	29.96	30.88	31.47	31.59
45.0			20.48	22.45	24.44	26.40	28.28	30.01	31.54	32.80	33.76	34.03
50.0				22.42	24.69	26.95	29.14	31.20	33.08	34.71	36.05	36.48
55.0				22.26	24.83	27.40	29.92	32.33	34.58	36.59	38.33	38.93
60.0					24.85	27.75	30.62	33.39	36.02	38.43	40.59	
62.0					24.82	27.86	30.87	33.79	36.58	39.16		

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	66.70	88.70	116.00	149.50	189.50	238.00	295.00	362.00				
15.0	63.70	86.00	113.50	147.00	187.00	235.00	292.00	358.00	436.00			
20.0	60.20	82.90	110.50	144.00	184.00	231.00	288.00	354.00	431.00	521.00	626.00	
25.0	56.20	79.30	107.00	140.00	180.00	227.00	283.00	349.00	426.00	516.00	621.00	668.00
30.0		75.20	103.00	136.00	175.50	223.00	278.00	343.00	420.00	510.00	615.00	662.00
35.0		70.50	98.40	131.50	170.50	217.00	272.00	337.00	413.00	503.00	608.00	655.00
40.0			93.30	126.00	165.00	211.00	266.00	330.00	406.00	496.00	601.00	649.00
45.0			87.60	120.50	159.00	204.00	258.00	322.00	398.00	488.00	594.00	642.00
50.0				113.50	152.00	197.00	250.00	314.00	390.00	480.00	587.00	635.00
55.0				106.50	144.00	189.00	242.00	305.00	381.00	472.00	581.00	630.00
60.0					136.00	180.50	234.00	297.00	374.00	466.00	578.00	
62.0					133.00	177.50	230.00	294.00	372.00	465.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /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 (LT), dBA	75
Sound Power (LT), dBA	86
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	69
Sound Power (MT), dBA	80
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	3922
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>
---	---

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>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