



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	13.70	18.10	23.40	29.60	37.10	45.80	55.90	67.60				
15.0	12.60	16.95	22.10	28.20	35.30	43.70	53.40	64.50	77.40			
20.0	11.35	15.70	20.80	26.60	33.50	41.40	50.70	61.30	73.50	87.30	103.00	
25.0	10.05	14.35	19.25	24.90	31.50	39.00	47.80	57.80	69.40	82.50	97.30	104.00
30.0		12.90	17.70	23.10	29.30	36.50	44.80	54.20	65.10	77.40	91.50	97.60
35.0		11.40	16.00	21.20	27.10	33.80	41.60	50.50	60.60	72.20	85.40	91.10
40.0			14.30	19.20	24.70	31.10	38.30	46.50	56.00	66.80	79.10	84.40
45.0			12.50	17.15	22.30	28.20	34.90	42.50	51.20	61.20	72.60	77.60
50.0				15.05	19.85	25.20	31.40	38.40	46.40	55.50	66.00	70.60
55.0				12.90	17.30	22.20	27.80	34.10	41.40	49.70	59.30	63.50
60.0					14.75	19.15	24.10	29.80	36.30	43.80	52.40	
62.0					13.75	17.95	22.70	28.10	34.30	41.40		

50 Hz

4MI-30

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	6.43	7.29	8.06	8.72	9.28	9.72	10.05	10.20				
15.0	6.61	7.61	8.51	9.31	10.00	10.55	11.00	11.30	11.45			
20.0	6.71	7.86	8.91	9.86	10.70	11.40	12.00	12.45	12.75	12.85	12.85	
25.0	6.72	8.03	9.25	10.35	11.35	12.25	13.00	13.60	14.05	14.35	14.45	14.45
30.0		8.11	9.51	10.80	12.00	13.05	13.95	14.75	15.35	15.80	16.10	16.15
35.0		8.09	9.69	11.20	12.55	13.80	14.90	15.85	16.65	17.30	17.75	17.90
40.0			9.76	11.45	13.05	14.50	15.80	16.95	17.95	18.80	19.45	19.70
45.0			9.73	11.65	13.45	15.10	16.65	18.00	19.25	20.30	21.20	21.50
50.0				11.70	13.75	15.65	17.40	19.05	20.50	21.80	22.90	23.20
55.0				11.65	13.95	16.10	18.10	20.00	21.70	23.20	24.50	25.00
60.0					14.05	16.45	18.75	20.80	22.80	24.60	26.20	
62.0					14.05	16.55	18.95	21.20	23.20	25.10		

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	18.53	19.25	20.00	20.70	21.30	21.74	21.95	21.89				
15.0	18.64	19.51	20.41	21.28	22.07	22.72	23.16	23.35	23.21			
20.0	18.71	19.73	20.80	21.86	22.86	23.73	24.41	24.85	24.99	24.76	24.10	
25.0	18.70	19.89	21.15	22.41	23.63	24.74	25.68	26.39	26.82	26.89	26.56	26.30
30.0		19.97	21.43	22.91	24.37	25.73	26.94	27.94	28.67	29.06	29.07	28.96
35.0		19.94	21.61	23.33	25.04	26.67	28.16	29.46	30.51	31.25	31.61	31.64
40.0			21.68	23.65	25.62	27.53	29.33	30.94	32.33	33.41	34.15	34.33
45.0			21.61	23.84	26.09	28.30	30.41	32.36	34.09	35.54	36.66	36.99
50.0				23.88	26.42	28.94	31.38	33.68	35.77	37.61	39.12	39.62
55.0				23.74	26.59	29.44	32.22	34.88	37.35	39.58	41.51	42.18
60.0					26.57	29.76	32.90	35.93	38.80	41.44	43.79	
62.0					26.50	29.83	33.12	36.31	39.34	42.15		

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	76.80	101.50	131.50	167.50	210.00	261.00	321.00	391.00				
15.0	73.40	99.30	130.00	166.00	209.00	260.00	319.00	389.00	471.00			
20.0	69.20	96.00	127.50	164.00	207.00	258.00	317.00	387.00	468.00	562.00	672.00	
25.0	64.20	92.00	124.00	161.00	204.00	255.00	314.00	383.00	464.00	558.00	668.00	717.00
30.0		87.10	119.50	157.00	200.00	251.00	310.00	379.00	459.00	553.00	663.00	712.00
35.0		81.30	114.50	152.50	195.50	246.00	305.00	373.00	453.00	547.00	656.00	706.00
40.0			108.50	146.50	190.00	240.00	298.00	366.00	446.00	539.00	649.00	698.00
45.0			101.50	140.00	183.50	233.00	291.00	359.00	438.00	531.00	641.00	690.00
50.0				132.50	176.00	225.00	283.00	350.00	429.00	522.00	632.00	682.00
55.0				124.00	167.50	217.00	274.00	341.00	419.00	513.00	624.00	675.00
60.0					158.50	208.00	265.00	331.00	410.00	505.00	618.00	
62.0					154.50	204.00	261.00	328.00	407.00	503.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /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 (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	70
Sound Power (MT), dBA	81
Sound Power with Sound Shell (MT), dBA	69
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	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>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