



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									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
5.0	16.90	22.20	28.60	36.30	45.40	56.20				
10.0	16.05	21.40	27.80	35.50	44.60	55.20	67.50			
15.0		20.40	26.80	34.40	43.30	53.70	65.80	79.60	95.30	
20.0		19.20	25.60	33.00	41.80	51.90	63.60	77.00	92.30	109.50
25.0			24.10	31.40	39.90	49.80	61.10	74.10	88.90	105.50
30.0				29.60	37.80	47.30	58.30	70.80	85.00	101.00
35.0				27.60	35.50	44.60	55.10	67.10	80.80	96.30
40.0					33.00	41.70	51.70	63.10	76.10	90.90
45.0					30.30	38.50	48.00	58.80	71.20	85.20
50.0						35.20	44.10	54.20	65.90	
55.0						31.80	40.00	49.50	60.30	
60.0							35.70	44.50		
62.0							34.00	42.40		

50 Hz

6MM-30

R449A 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	7.43	8.28	8.96	9.44	9.64	9.52				
10.0	7.89	8.96	9.91	10.70	11.25	11.50	11.40			
15.0		9.53	10.75	11.80	12.65	13.30	13.60	13.55	13.10	
20.0		9.99	11.40	12.75	13.95	14.90	15.60	16.00	16.00	15.55
25.0			12.00	13.60	15.05	16.35	17.45	18.25	18.70	18.75
30.0				14.30	16.05	17.65	19.10	20.30	21.20	21.70
35.0				14.90	16.90	18.80	20.60	22.20	23.50	24.50
40.0					17.65	19.85	21.90	23.90	25.60	27.00
45.0					18.25	20.70	23.20	25.40	27.50	29.40
50.0						21.50	24.20	26.80	29.30	
55.0						22.20	25.20	28.10	30.90	
60.0							26.00	29.20		
62.0							26.30	29.70		

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	22.99	23.59	24.15	24.58	24.75	24.57				
10.0	23.27	24.09	24.93	25.70	26.28	26.56	26.44			
15.0		24.56	25.68	26.78	27.76	28.51	28.90	28.85	28.24	
20.0		24.98	26.37	27.81	29.18	30.37	31.29	31.81	31.84	31.25
25.0			27.00	28.76	30.51	32.16	33.58	34.67	35.33	35.44
30.0				29.62	31.75	33.83	35.76	37.42	38.70	39.50
35.0				30.37	32.88	35.40	37.81	40.03	41.93	43.41
40.0					33.88	36.82	39.73	42.49	45.00	47.16
45.0					34.73	38.10	41.49	44.79	47.91	50.73
50.0						39.21	43.07	46.92	50.63	
55.0						40.14	44.47	48.84	53.15	
60.0							45.66	50.56		
62.0							46.08	51.18		

50 Hz

6MM-30

R449A Dew Point

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	75.20	98.80	127.50	162.50	204.00	254.00				
10.0	73.70	98.50	128.50	164.50	207.00	257.00	316.00			
15.0		97.20	128.00	165.00	208.00	259.00	319.00	388.00	468.00	
20.0		94.90	126.50	164.00	208.00	260.00	320.00	390.00	471.00	564.00
25.0			124.00	162.50	207.00	259.00	320.00	391.00	472.00	566.00
30.0				159.50	205.00	257.00	318.00	389.00	471.00	566.00
35.0				155.50	201.00	253.00	315.00	386.00	468.00	564.00
40.0					195.50	248.00	310.00	381.00	464.00	559.00
45.0					189.00	242.00	303.00	374.00	457.00	553.00
50.0						234.00	295.00	365.00	448.00	
55.0						224.00	285.00	355.00	438.00	
60.0							273.00	343.00		
62.0							268.00	338.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	121
Bore/Stroke, mm	71.5/57.5
Length/Width, mm	695/547
Height, mm	450
Net Weight, kg	215
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, dBA	81
Sound Power, dBA	92
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	59.7
Locked Rotor Current, A	255
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 %
Discharge Shut-off	Angle valve
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