



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	19.20	25.10	32.10	40.70	50.70	62.60				
10.0	18.20	24.20	31.30	39.70	49.70	61.40	74.90			
15.0		23.00	30.10	38.50	48.30	59.80	73.00	88.10	105.50	
20.0		21.70	28.70	37.00	46.60	57.70	70.60	85.30	102.00	121.00
25.0			27.10	35.10	44.50	55.30	67.80	82.00	98.20	116.50
30.0				33.10	42.20	52.60	64.60	78.30	94.00	111.50
35.0				30.90	39.60	49.60	61.10	74.30	89.20	106.00
40.0					36.80	46.30	57.30	69.80	84.10	100.50
45.0					33.80	42.90	53.20	65.10	78.70	94.00
50.0						39.20	48.90	60.10	72.90	
55.0						35.40	44.50	54.90	66.80	
60.0							39.80	49.40		
62.0							37.90	47.20		

50 Hz

6MT-35

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	8.19	9.10	9.89	10.50	10.90	11.00				
10.0	8.80	9.96	11.00	11.95	12.65	13.15	13.35			
15.0		10.65	11.95	13.20	14.25	15.10	15.70	16.00	15.95	
20.0		11.15	12.75	14.25	15.65	16.85	17.80	18.55	18.90	18.95
25.0			13.40	15.15	16.85	18.40	19.75	20.90	21.70	22.20
30.0				15.95	17.95	19.80	21.50	23.00	24.30	25.20
35.0				16.60	18.90	21.10	23.20	25.00	26.70	28.10
40.0					19.70	22.20	24.60	26.90	29.00	30.80
45.0					20.50	23.30	26.00	28.70	31.20	33.40
50.0						24.30	27.30	30.30	33.20	
55.0						25.20	28.60	31.90	35.20	
60.0							29.80	33.40		
62.0							30.20	34.00		

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	23.51	24.18	24.86	25.45	25.83	25.90				
10.0	23.98	24.93	25.95	26.92	27.75	28.33	28.55			
15.0		25.56	26.91	28.27	29.54	30.62	31.40	31.76	31.61	
20.0		26.08	27.75	29.49	31.21	32.78	34.11	35.08	35.60	35.55
25.0			28.48	30.60	32.74	34.81	36.68	38.26	39.44	40.11
30.0				31.59	34.16	36.71	39.12	41.30	43.14	44.52
35.0				32.47	35.46	38.49	41.44	44.21	46.70	48.79
40.0					36.65	40.15	43.63	46.99	50.12	52.91
45.0					37.73	41.70	45.70	49.64	53.41	56.90
50.0						43.14	47.66	52.17	56.57	
55.0						44.47	49.50	54.59	59.61	
60.0							51.24	56.89		
62.0							51.91	57.78		

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	85.50	111.50	143.50	182.00	228.00	282.00				
10.0	83.70	111.50	144.50	184.00	231.00	286.00	351.00			
15.0		109.50	144.00	184.50	232.00	289.00	354.00	430.00	518.00	
20.0		107.00	142.50	183.50	232.00	289.00	355.00	432.00	521.00	623.00
25.0			139.50	181.50	231.00	288.00	355.00	432.00	522.00	625.00
30.0				178.50	228.00	286.00	353.00	431.00	521.00	624.00
35.0				174.00	224.00	282.00	349.00	427.00	517.00	622.00
40.0					218.00	276.00	343.00	422.00	512.00	617.00
45.0					211.00	269.00	336.00	414.00	505.00	610.00
50.0						260.00	327.00	405.00	496.00	
55.0						250.00	317.00	394.00	484.00	
60.0							304.00	381.00		
62.0							299.00	376.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	135
Bore/Stroke, mm	75.7/57.5
Length/Width, mm	725/547
Height, mm	450
Net Weight, kg	221
Suction, inch	2 1/8
Discharge, inch	1 5/8
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	80.5
Sound Power, dBA	91.5
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	67.3
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 %
Copeland Compressor Electronic module	Modbus extension module

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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