



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return Liquid injection
- █ 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	18.80	24.40	31.20	39.60	49.60	61.30				
10.0	17.80	23.40	30.30	38.50	48.30	59.80	73.00			
15.0	16.60	22.30	29.10	37.30	46.90	58.00	70.90	85.60	102.00	
20.0	15.35	21.00	27.80	35.80	45.10	56.00	68.50	82.70	98.80	117.00
25.0	13.90	19.60	26.30	34.10	43.20	53.70	65.80	79.50	95.00	112.50
30.0	12.30	17.95	24.60	32.20	41.00	51.20	62.80	76.00	90.90	107.50
35.0	10.55	16.20	22.60	30.00	38.60	48.30	59.50	72.20	86.50	102.50
40.0	8.67	14.20	20.50	27.70	35.90	45.20	55.90	68.00	81.70	97.00
45.0		12.05	18.15	25.10	32.90	41.90	52.00	63.50	76.50	91.10
50.0			15.60	22.20	29.70	38.20	47.80	58.70	71.00	
55.0				19.15	26.20	34.30	43.30	53.50	65.10	
60.0					22.50	30.00	38.50	48.00		
62.0					20.90	28.20	36.50	45.70		

50 Hz

6MT-35 DC

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	8.35	9.31	10.10	10.70	11.10	11.25				
10.0	8.96	10.20	11.25	12.15	12.90	13.40	13.60			
15.0	9.40	10.90	12.25	13.45	14.50	15.35	15.95	16.30	16.40	
20.0	9.67	11.40	13.05	14.60	15.95	17.15	18.10	18.85	19.35	19.55
25.0	9.80	11.80	13.70	15.55	17.25	18.75	20.10	21.20	22.10	22.70
30.0	9.79	12.05	14.25	16.35	18.35	20.20	21.90	23.40	24.70	25.80
35.0	9.65	12.15	14.65	17.05	19.35	21.60	23.60	25.50	27.20	28.70
40.0	9.39	12.15	14.90	17.60	20.20	22.80	25.20	27.50	29.60	31.40
45.0		12.05	15.05	18.05	21.00	23.90	26.60	29.30	31.80	34.10
50.0			15.10	18.40	21.60	24.80	28.00	31.00	33.90	
55.0				18.65	22.20	25.70	29.20	32.60	35.90	
60.0					22.70	26.50	30.30	34.10		
62.0					22.80	26.80	30.80	34.70		

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	23.51	24.18	24.86	25.45	25.83	25.90				
10.0	23.98	24.93	25.94	26.92	27.75	28.33	28.55			
15.0	24.33	25.56	26.91	28.27	29.54	30.62	31.40	31.76	31.61	
20.0	24.59	26.08	27.75	29.49	31.21	32.78	34.11	35.08	35.60	35.55
25.0	24.74	26.49	28.48	30.60	32.74	34.81	36.68	38.26	39.44	40.11
30.0	24.80	26.80	29.10	31.59	34.16	36.71	39.13	41.30	43.14	44.52
35.0	24.76	27.01	29.62	32.47	35.46	38.49	41.44	44.21	46.70	48.79
40.0	24.63	27.13	30.04	33.25	36.65	40.15	43.63	46.99	50.12	52.91
45.0		27.15	30.36	33.92	37.74	41.70	45.70	49.64	53.41	56.90
50.0			30.59	34.49	38.71	43.14	47.66	52.18	56.58	
55.0				34.97	39.59	44.47	49.51	54.59	59.62	
60.0					40.37	45.70	51.24	56.89		
62.0					40.66	46.17	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	83.60	108.50	139.50	177.50	223.00	276.00				
10.0	81.70	108.00	140.00	178.50	224.00	279.00	342.00			
15.0	79.10	106.50	139.00	178.50	225.00	280.00	344.00	418.00	503.00	
20.0	75.70	104.00	138.00	178.00	225.00	281.00	345.00	419.00	504.00	602.00
25.0	71.30	100.50	135.50	176.00	224.00	280.00	344.00	419.00	505.00	603.00
30.0	65.80	96.20	132.00	173.50	222.00	278.00	343.00	418.00	504.00	603.00
35.0	59.00	90.50	127.00	169.00	218.00	274.00	340.00	415.00	501.00	601.00
40.0	50.70	83.30	120.50	163.50	213.00	269.00	335.00	410.00	497.00	597.00
45.0		74.40	112.50	156.00	206.00	263.00	328.00	404.00	491.00	591.00
50.0			102.00	146.00	196.00	254.00	320.00	395.00	483.00	
55.0				134.00	184.50	242.00	308.00	384.00	472.00	
60.0					169.50	228.00	294.00	370.00		
62.0					162.50	221.00	288.00	364.00		

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /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 (LT), dBA	78
Sound Power (LT), dBA	89
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	73
Sound Power (MT), dBA	84
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	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
Additional Cooling	Demand Cooling (Driver XEV01D)
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Mounting Parts	Rubber
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