



Minimum Evaporating Temp. With:

■ 20 °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							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	40.10	50.70	63.50					
15.0	38.20	48.30	60.60	75.20				
20.0	36.20	45.90	57.60	71.60	87.90			
25.0	34.30	43.60	54.70	67.90	83.40	101.50	109.50	
30.0	32.30	41.20	51.80	64.30	79.00	96.00	103.50	115.50
35.0	30.40	38.80	48.80	60.60	74.50	90.50	97.60	109.00
40.0	28.40	36.40	45.90	57.00	69.90	85.00	91.70	102.50
45.0	26.40	34.00	42.90	53.30	65.40	79.50	85.70	95.70
50.0	24.40	31.60	39.90	49.60	60.80	73.90	79.70	89.10
55.0	22.40	29.10	36.80	45.80	56.30	68.40	73.70	82.40
60.0		26.60	33.80	42.00	51.60	62.70	67.70	75.60
65.0			30.60	38.20	46.90	57.10	61.60	68.80
70.0			27.50	34.30	42.20	51.40	55.40	62.00
75.0				30.40	37.40	45.60	49.20	55.10
80.0				26.40	32.60	39.80	43.00	48.20

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	9.09	9.47	9.58					
15.0	9.96	10.55	10.95	11.00				
20.0	10.75	11.60	12.20	12.55	12.55			
25.0	11.50	12.50	13.40	14.00	14.35	14.30	14.20	
30.0	12.15	13.40	14.45	15.35	16.00	16.30	16.35	16.25
35.0	12.75	14.20	15.50	16.65	17.55	18.20	18.35	18.50
40.0	13.30	14.90	16.45	17.85	19.05	20.00	20.30	20.60
45.0	13.80	15.55	17.30	18.95	20.40	21.70	22.10	22.70
50.0	14.25	16.15	18.10	19.95	21.70	23.30	23.80	24.60
55.0	14.60	16.70	18.85	20.90	22.90	24.80	25.50	26.40
60.0		17.20	19.50	21.80	24.10	26.20	27.00	28.20
65.0			20.10	22.60	25.10	27.50	28.50	29.80
70.0			20.70	23.40	26.10	28.80	29.80	31.40
75.0				24.10	27.00	29.90	31.10	32.80
80.0				24.70	27.90	31.00	32.30	34.20

50 Hz 6MT-35 R134a

Cond °C	Current at 400 V, A							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	23.43	23.82	23.87					
15.0	24.30	24.96	25.35	25.36				
20.0	25.13	26.07	26.77	27.15	27.12			
25.0	25.93	27.12	28.14	28.89	29.27	29.19	29.01	
30.0	26.67	28.12	29.45	30.57	31.37	31.75	31.77	31.63
35.0	27.37	29.07	30.70	32.17	33.38	34.24	34.45	34.63
40.0	28.02	29.96	31.89	33.72	35.33	36.64	37.06	37.55
45.0	28.62	30.80	33.02	35.19	37.20	38.96	39.57	40.37
50.0	29.16	31.57	34.08	36.58	38.99	41.20	42.00	43.11
55.0	29.64	32.28	35.07	37.91	40.70	43.35	44.34	45.75
60.0		32.92	35.98	39.15	42.32	45.40	46.59	48.30
65.0			36.82	40.31	43.86	47.37	48.74	50.74
70.0			37.58	41.39	45.30	49.24	50.79	53.09
75.0				42.38	46.66	51.01	52.75	55.33
80.0				43.28	47.92	52.68	54.60	57.47

Cond °C	Suction Mass Flow, g/s							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	196.00	248.00	313.00					
15.0	193.00	245.00	309.00	385.00				
20.0	190.00	242.00	305.00	380.00	470.00			
25.0	187.00	238.00	301.00	375.00	463.00	568.00	614.00	
30.0	183.50	235.00	296.00	370.00	457.00	560.00	606.00	680.00
35.0	180.00	231.00	292.00	364.00	450.00	551.00	597.00	670.00
40.0	176.00	227.00	287.00	358.00	443.00	543.00	587.00	660.00
45.0	172.00	222.00	282.00	352.00	435.00	533.00	577.00	649.00
50.0	167.50	217.00	276.00	345.00	427.00	523.00	567.00	637.00
55.0	162.00	212.00	269.00	337.00	418.00	512.00	555.00	624.00
60.0		205.00	262.00	329.00	408.00	500.00	542.00	611.00
65.0			255.00	320.00	397.00	488.00	529.00	596.00
70.0			246.00	310.00	385.00	473.00	514.00	579.00
75.0				298.00	371.00	458.00	497.00	562.00
80.0				285.00	356.00	441.00	480.00	543.00

### **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 (MT), dBA	72
Sound Power (MT), dBA	83
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	1430
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

<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	YY/Y	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	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	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	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00