



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										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	47.30	60.00	75.40	93.90	116.00						
15.0	44.90	57.10	71.90	89.60	110.50	135.00	164.00				
20.0	42.50	54.20	68.30	85.20	105.50	128.50	156.00	168.00	187.00		
25.0	40.00	51.20	64.70	80.80	99.80	122.00	148.00	159.50	177.50	194.00	
30.0	37.60	48.30	61.10	76.40	94.30	115.50	140.00	150.50	168.00	183.50	
35.0	35.30	45.40	57.50	71.90	88.80	108.50	131.50	142.00	158.50	173.00	
40.0	32.90	42.50	53.90	67.30	83.20	102.00	123.50	133.00	148.50	162.50	
45.0	30.70	39.70	50.30	62.80	77.50	94.80	115.00	124.00	138.50	151.50	
50.0		36.90	46.70	58.30	71.90	87.90	106.50	115.00	128.50	140.50	
55.0		34.10	43.10	53.70	66.20	80.90	98.10	106.00	118.00	129.50	
60.0			39.60	49.20	60.60	73.90	89.60	96.60	108.00	118.50	

50 Hz

6MJ-45

R407C Dew Point

Cond °C	Power, kW										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	12.65	13.40	13.85	13.95	13.60						
15.0	13.70	14.75	15.50	15.95	16.00	15.50	14.50				
20.0	14.65	16.00	17.05	17.85	18.25	18.20	17.65	17.30	16.50		
25.0	15.55	17.15	18.50	19.65	20.40	20.80	20.70	20.50	20.00	19.50	
30.0	16.40	18.20	19.90	21.30	22.50	23.30	23.60	23.60	23.50	23.20	
35.0	17.15	19.20	21.20	23.00	24.50	25.70	26.50	26.60	26.80	26.70	
40.0	17.85	20.20	22.40	24.50	26.40	28.00	29.20	29.60	30.00	30.20	
45.0	18.55	21.10	23.60	26.00	28.30	30.20	31.90	32.40	33.10	33.60	
50.0		22.00	24.80	27.50	30.00	32.40	34.50	35.20	36.20	36.90	
55.0		22.80	25.90	28.90	31.80	34.50	37.00	37.90	39.10	40.10	
60.0			26.90	30.20	33.50	36.60	39.50	40.50	42.10	43.20	

Cond °C	Current at 400 V, A										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	30.78	31.57	32.08	32.21	31.81						
15.0	31.85	32.94	33.81	34.33	34.39	33.85	32.59				
20.0	32.89	34.29	35.52	36.46	36.98	36.96	36.27	35.78	34.79		
25.0	33.88	35.61	37.22	38.59	39.59	40.10	40.00	39.76	39.15	38.41	
30.0	34.83	36.89	38.89	40.71	42.20	43.26	43.76	43.77	43.56	43.16	
35.0	35.72	38.13	40.54	42.81	44.81	46.43	47.54	47.81	48.00	47.95	
40.0	36.55	39.33	42.15	44.89	47.42	49.61	51.34	51.87	52.48	52.79	
45.0	37.31	40.47	43.72	46.94	50.00	52.78	55.15	55.95	56.98	57.65	
50.0		41.54	45.24	48.96	52.57	55.94	58.96	60.04	61.49	62.54	
55.0		42.55	46.70	50.93	55.10	59.09	62.77	64.13	66.02	67.45	
60.0			48.11	52.86	57.60	62.22	66.58	68.22	70.56	72.37	

Cond °C	Suction Mass Flow, g/s										
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	210.00	266.00	336.00	421.00	523.00						
15.0	205.00	262.00	332.00	416.00	516.00	636.00	777.00				
20.0	201.00	258.00	326.00	410.00	509.00	627.00	767.00	829.00	931.00		
25.0	197.00	253.00	321.00	403.00	501.00	618.00	756.00	818.00	918.00	1010.00	
30.0	192.50	248.00	315.00	396.00	493.00	608.00	744.00	805.00	905.00	996.00	
35.0	188.00	243.00	309.00	389.00	484.00	597.00	732.00	792.00	891.00	981.00	
40.0	183.50	238.00	303.00	381.00	475.00	586.00	718.00	778.00	875.00	964.00	
45.0	179.00	233.00	297.00	373.00	465.00	574.00	704.00	763.00	859.00	947.00	
50.0		228.00	290.00	365.00	454.00	561.00	689.00	746.00	841.00	928.00	
55.0		223.00	284.00	357.00	443.00	548.00	673.00	730.00	823.00	909.00	
60.0			278.00	348.00	432.00	534.00	656.00	712.00	804.00	889.00	

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	223
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	74
Sound Power (MT), dBA	85
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	74
Sound Power (HT), dBA	85
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 50 / 15 °C at 50 Hz
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1774
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	81.5
Locked Rotor Current, A	321
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