



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	54.00	68.50	86.20	107.50	132.00						
15.0	50.40	64.30	81.00	101.00	124.50	152.00	184.00				
20.0	47.00	60.20	76.10	95.00	117.50	143.50	173.50	187.00	208.00		
25.0	43.90	56.40	71.40	89.20	110.50	135.00	163.50	176.00	196.50	215.00	
30.0	40.90	52.70	66.90	83.70	103.50	126.50	153.50	165.50	184.50	202.00	
35.0	38.10	49.30	62.60	78.40	97.00	119.00	144.00	155.50	173.50	189.50	
40.0	35.40	46.00	58.60	73.30	90.70	111.00	135.00	145.50	162.50	177.50	
45.0	33.00	43.00	54.70	68.50	84.70	103.50	126.00	135.50	151.50	166.00	
50.0		40.10	51.00	63.80	78.90	96.50	117.00	126.50	141.00	154.50	
55.0		37.30	47.50	59.40	73.30	89.60	108.50	117.00	131.00	143.00	
60.0			44.20	55.10	67.90	82.90	100.50	108.00	121.00	132.50	

50 Hz

6MK-50

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	19.25	20.90	22.10	22.80	23.00						
15.0	18.10	19.85	21.30	22.40	22.90	22.80	22.00				
20.0	17.55	19.45	21.10	22.50	23.40	23.70	23.40	23.10	22.40		
25.0	17.50	19.55	21.50	23.10	24.30	25.10	25.30	25.20	24.90	24.30	
30.0	17.95	20.10	22.20	24.10	25.70	26.90	27.60	27.70	27.60	27.40	
35.0	18.75	21.00	23.30	25.40	27.30	28.90	30.10	30.40	30.70	30.80	
40.0	19.80	22.20	24.60	27.00	29.20	31.10	32.80	33.30	33.90	34.30	
45.0	21.10	23.50	26.10	28.70	31.20	33.50	35.50	36.30	37.20	37.90	
50.0		24.90	27.60	30.40	33.20	35.90	38.30	39.30	40.50	41.40	
55.0		26.40	29.20	32.10	35.20	38.20	41.10	42.20	43.70	44.90	
60.0			30.60	33.80	37.00	40.40	43.60	44.90	46.70	48.20	

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	45.02	46.66	47.97	48.80	49.00						
15.0	43.76	45.53	47.07	48.23	48.84	48.74	47.78				
20.0	43.17	45.08	46.85	48.33	49.36	49.78	49.42	49.03	48.13		
25.0	43.14	45.19	47.21	49.02	50.48	51.41	51.67	51.54	51.08	50.42	
30.0	43.59	45.80	48.05	50.20	52.08	53.54	54.41	54.56	54.54	54.27	
35.0	44.43	46.79	49.29	51.78	54.09	56.08	57.57	57.99	58.41	58.54	
40.0	45.57	48.08	50.83	53.66	56.41	58.93	61.05	61.75	62.61	63.12	
45.0	46.90	49.57	52.58	55.76	58.95	62.00	64.75	65.73	67.03	67.95	
50.0		51.17	54.44	57.97	61.61	65.20	68.58	69.84	71.59	72.91	
55.0		52.80	56.32	60.21	64.31	68.44	72.46	73.99	76.19	77.91	
60.0			58.14	62.39	66.94	71.62	76.28	78.10	80.75	82.87	

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	239.00	305.00	385.00	481.00	596.00						
15.0	231.00	295.00	374.00	468.00	582.00	715.00	873.00				
20.0	223.00	286.00	364.00	456.00	567.00	699.00	854.00	923.00	1036.00		
25.0	216.00	278.00	354.00	445.00	554.00	683.00	835.00	904.00	1015.00	1116.00	
30.0	209.00	271.00	345.00	434.00	541.00	668.00	818.00	885.00	995.00	1095.00	
35.0	203.00	264.00	337.00	424.00	529.00	653.00	801.00	867.00	975.00	1074.00	
40.0	197.50	258.00	329.00	415.00	518.00	640.00	785.00	850.00	957.00	1055.00	
45.0	192.50	252.00	323.00	407.00	507.00	627.00	770.00	835.00	940.00	1037.00	
50.0		248.00	317.00	400.00	498.00	616.00	757.00	820.00	924.00	1020.00	
55.0		244.00	313.00	394.00	491.00	606.00	745.00	808.00	911.00	1006.00	
60.0			310.00	390.00	485.00	599.00	735.00	798.00	900.00	995.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	153
Bore/Stroke, mm	80.6/57.5
Length/Width, mm	773/547
Height, mm	450
Net Weight, kg	230
Suction, inch	2 5/8
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	76
Sound Power (MT), dBA	87
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	76
Sound Power (HT), dBA	87
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	92.9
Locked Rotor Current, A	416
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	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
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