



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°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
10.0	46.60	59.10	74.30	92.50	114.00				
15.0	44.40	56.40	71.00	88.30	109.00				
20.0	42.20	53.80	67.60	84.20	103.50	126.50			
25.0	40.00	51.10	64.30	80.00	98.50	120.00	145.00	156.00	
30.0		48.30	60.90	75.80	93.30	113.50	137.00	147.50	164.50
35.0		45.50	57.50	71.50	88.00	107.00	129.50	139.00	155.00
40.0			54.00	67.20	82.60	100.50	121.50	130.50	145.50
45.0			50.40	62.80	77.20	94.00	113.50	122.00	136.00
50.0				58.20	71.70	87.30	105.50	113.50	126.00
55.0					66.00	80.50	97.20	104.50	116.50
60.0					60.30	73.50	88.90	95.70	

50 Hz

6MID-40X 100% Loaded

R407F Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	12.95	13.65	14.10	14.25	14.05				
15.0	14.00	14.95	15.65	16.10	16.20				
20.0	14.95	16.15	17.15	17.85	18.30	18.40			
25.0	15.80	17.25	18.55	19.60	20.30	20.80	20.80	20.70	
30.0		18.30	19.90	21.20	22.30	23.10	23.50	23.60	23.60
35.0		19.30	21.20	22.80	24.30	25.40	26.20	26.50	26.70
40.0			22.40	24.40	26.20	27.70	28.90	29.30	29.70
45.0			23.60	25.90	28.00	29.90	31.50	32.10	32.80
50.0				27.30	29.80	32.10	34.10	34.80	35.80
55.0					31.60	34.20	36.60	37.50	38.80
60.0					33.30	36.30	39.10	40.20	

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
10.0	31.46	32.17	32.66	32.82	32.57				
15.0	32.51	33.48	34.27	34.77	34.89				
20.0	33.51	34.78	35.89	36.76	37.27	37.36			
25.0	34.46	36.05	37.52	38.78	39.72	40.26	40.30	40.16	
30.0		37.29	39.14	40.81	42.21	43.23	43.80	43.88	43.81
35.0		38.47	40.73	42.85	44.73	46.27	47.38	47.69	47.98
40.0			42.29	44.88	47.26	49.35	51.04	51.59	52.25
45.0			43.80	46.88	49.80	52.46	54.76	55.56	56.60
50.0				48.85	52.34	55.59	58.52	59.58	61.03
55.0					54.85	58.73	62.32	63.65	65.53
60.0					57.33	61.86	66.13	67.75	

50 Hz

6MID-40X 100% Loaded

R407F Dew Point

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
10.0	198.50	253.00	319.00	400.00	497.00				
15.0	195.50	249.00	315.00	395.00	490.00				
20.0	192.50	246.00	311.00	390.00	484.00	596.00			
25.0	188.50	242.00	307.00	384.00	477.00	587.00	717.00	776.00	
30.0		238.00	302.00	378.00	469.00	578.00	706.00	764.00	858.00
35.0		233.00	297.00	372.00	461.00	568.00	694.00	751.00	844.00
40.0			291.00	365.00	453.00	558.00	682.00	738.00	830.00
45.0			284.00	357.00	444.00	547.00	669.00	724.00	815.00
50.0				349.00	434.00	535.00	655.00	710.00	799.00
55.0					424.00	523.00	641.00	695.00	783.00
60.0					413.00	510.00	627.00	680.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m³/h	121
Bore/Stroke, mm	71.5/57.5
Length/Width, mm	695/547
Height, mm	450
Net Weight, kg	225
Suction, inch	2 1/8
Discharge, inch	1 3/8
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 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
Digital Modulation	33-100%
Refrigerant's GWP	1825
Refrigerant's classification	A1

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

Maximum Operating Current, A	71.4
Locked Rotor Current, A	304
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

Check Valve	For unloaded start operation
Digital Driver	EC3-D23
Digital Modulation	33-66%
Adapter Kit	For Parallel Operation
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Sound Attenuation	Sound Shell
Mounting Parts	Rubber
Discharge Shut-off	Angle valve
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