



Minimum Evaporating Temp. With:

- █ 20 °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	12.5
10.0	45.10	56.90	71.30	88.40	108.50					
15.0	42.90	54.30	68.10	84.50	104.00	126.50				
20.0	40.60	51.70	64.90	80.60	99.00	120.50	145.50			
25.0	38.30	48.90	61.50	76.50	94.00	114.50	138.00	148.50	165.50	180.50
30.0	36.00	46.10	58.10	72.30	88.90	108.50	130.50	140.50	156.50	170.50
35.0	33.60	43.30	54.60	68.00	83.60	102.00	123.00	132.50	147.50	161.00
40.0		40.40	51.10	63.60	78.30	95.40	115.50	124.00	138.00	151.00
45.0			47.50	59.10	72.80	88.80	107.50	115.50	128.50	140.50
50.0			43.80	54.60	67.30	82.00	99.20	107.00	119.00	130.00
55.0				50.10	61.70	75.20	91.10	98.10	109.50	119.50
60.0				45.50	56.00	68.30	82.80			
62.0					53.80	65.60				

50 Hz

6MID-40X 100% Loaded

R407A 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
10.0	12.35	13.05	13.55	13.70	13.60					
15.0	13.30	14.25	15.00	15.45	15.65	15.45				
20.0	14.20	15.40	16.40	17.15	17.65	17.80	17.55			
25.0	15.05	16.45	17.70	18.75	19.55	20.00	20.20	20.10	19.90	19.55
30.0	15.80	17.45	19.00	20.30	21.40	22.20	22.70	22.80	22.80	22.70
35.0	16.50	18.40	20.20	21.80	23.20	24.40	25.20	25.40	25.70	25.80
40.0		19.30	21.30	23.30	25.00	26.50	27.60	28.00	28.50	28.80
45.0			22.40	24.60	26.70	28.50	30.00	30.60	31.30	31.80
50.0			23.50	26.00	28.30	30.50	32.40	33.10	34.00	34.70
55.0				27.30	30.00	32.40	34.70	35.60	36.70	37.60
60.0				28.60	31.50	34.40	37.00			
62.0					32.20	35.10				

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
10.0	31.18	31.74	32.15	32.32	32.16					
15.0	31.94	32.76	33.47	33.97	34.16	33.94				
20.0	32.72	33.82	34.85	35.70	36.27	36.47	36.18			
25.0	33.51	34.92	36.29	37.51	38.48	39.11	39.29	39.21	38.92	38.50
30.0	34.29	36.03	37.76	39.37	40.76	41.84	42.50	42.63	42.65	42.50
35.0	35.04	37.13	39.24	41.26	43.10	44.65	45.82	46.16	46.51	46.64
40.0		38.20	40.71	43.17	45.47	47.52	49.22	49.77	50.46	50.88
45.0			42.16	45.07	47.86	50.43	52.67	53.46	54.49	55.22
50.0			43.55	46.94	50.24	53.35	56.16	57.19	58.59	59.62
55.0				48.77	52.60	56.27	59.68	60.94	62.72	64.08
60.0				50.54	54.92	59.17	63.19			
62.0					55.83	60.32				

50 Hz

6MID-40X 100% Loaded

R407A 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	12.5
10.0	212.00	268.00	337.00	420.00	520.00					
15.0	208.00	265.00	334.00	416.00	515.00	632.00				
20.0	205.00	261.00	330.00	412.00	510.00	626.00	762.00			
25.0	201.00	257.00	325.00	407.00	504.00	618.00	754.00	814.00	913.00	1003.00
30.0	196.50	253.00	320.00	401.00	497.00	610.00	744.00	804.00	902.00	992.00
35.0	192.00	248.00	315.00	394.00	489.00	601.00	734.00	793.00	890.00	979.00
40.0		243.00	309.00	387.00	480.00	591.00	722.00	781.00	877.00	966.00
45.0			302.00	379.00	471.00	580.00	709.00	768.00	863.00	951.00
50.0			295.00	371.00	460.00	568.00	695.00	753.00	848.00	935.00
55.0				362.00	450.00	555.00	681.00	738.00	832.00	918.00
60.0				353.00	438.00	541.00	665.00			
62.0					434.00	536.00				

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /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	73
Sound Power (MT), dBA	84
Sound Power with Sound Shell (MT), dBA	72
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Sound Pressure @ 1m (HT), dBA	73
Sound Power (HT), dBA	84
Sound Power with Sound Shell (HT), dBA	72
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 55 / 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	2107
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