



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	31.00	39.30	49.40	61.30	75.40				
15.0	29.50	37.50	47.10	58.60	72.10				
20.0	27.90	35.60	44.80	55.80	68.60	83.60			
25.0	26.30	33.60	42.50	52.90	65.10	79.40	95.80	103.00	
30.0		31.70	40.10	50.00	61.50	75.00	90.60	97.50	108.50
35.0			37.70	47.00	57.90	70.60	85.30	91.80	102.00
40.0			35.30	44.00	54.20	66.10	79.90	86.00	95.80
45.0				41.00	50.50	61.60	74.50	80.20	89.30
50.0				38.00	46.80	57.00	69.00	74.20	82.80
55.0					43.10	52.50	63.40	68.30	76.20
60.0						47.90	57.90	62.30	

50 Hz

4MID-30X 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	8.12	8.58	8.75	8.54	7.86				
15.0	8.78	9.45	9.89	10.00	9.69				
20.0	9.40	10.25	10.90	11.35	11.35	11.00			
25.0	9.98	11.00	11.90	12.55	12.90	12.90	12.40	12.05	
30.0		11.70	12.75	13.70	14.35	14.70	14.60	14.40	14.00
35.0			13.60	14.75	15.70	16.35	16.65	16.60	16.45
40.0			14.45	15.75	16.95	17.90	18.55	18.70	18.80
45.0				16.75	18.15	19.35	20.30	20.60	21.00
50.0				17.70	19.30	20.80	22.00	22.50	23.00
55.0					20.40	22.10	23.70	24.20	25.00
60.0						23.50	25.30	25.90	

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	20.04	20.49	20.68	20.46	19.70				
15.0	20.66	21.34	21.82	21.96	21.62				
20.0	21.28	22.18	22.94	23.42	23.49	23.03			
25.0	21.91	23.01	24.03	24.84	25.32	25.32	24.71	24.27	
30.0		23.83	25.10	26.23	27.09	27.54	27.45	27.24	26.69
35.0			26.17	27.60	28.82	29.71	30.12	30.12	29.93
40.0			27.22	28.94	30.52	31.83	32.73	32.94	33.09
45.0				30.27	32.19	33.90	35.27	35.69	36.17
50.0				31.57	33.82	35.93	37.76	38.38	39.18
55.0					35.43	37.92	40.19	41.01	42.13
60.0						39.87	42.58	43.59	

50 Hz

4MID-30X 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	132.00	168.50	212.00	265.00	328.00				
15.0	129.50	165.50	209.00	262.00	325.00				
20.0	127.00	162.50	206.00	258.00	320.00	394.00			
25.0	124.00	159.50	202.00	254.00	315.00	388.00	474.00	512.00	
30.0		156.00	198.50	249.00	310.00	381.00	466.00	504.00	566.00
35.0			194.50	244.00	304.00	374.00	458.00	495.00	557.00
40.0			190.00	239.00	297.00	366.00	449.00	486.00	547.00
45.0				233.00	290.00	358.00	439.00	476.00	536.00
50.0				228.00	283.00	350.00	429.00	465.00	524.00
55.0					276.00	341.00	418.00	454.00	512.00
60.0						332.00	408.00	443.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m³/h	78.2
Bore/Stroke, mm	71.5/56.0
Length/Width, mm	657/501
Height, mm	452
Net Weight, kg	194
Suction, inch	2 1/8
Discharge, inch	1 1/8
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	70
Sound Power (MT), dBA	81
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	50-100%
Refrigerant's GWP	1825
Refrigerant's classification	A1

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

Maximum Operating Current, A	46.6
Locked Rotor Current, A	221
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch (-P)	OPS2 Sensor
Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
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
Mounting Parts	Rubber
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Adapter Kit	For Parallel Operation
Digital Driver	EC3-D23
Oil Pressure Switch	OPS2 Electronic Switch
Digital Modulation	50-100 %
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	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