



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								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	22.50	29.80	39.00	50.40	64.10	80.30	99.40	121.50	
15.0		28.30	37.20	48.00	61.00	76.50	94.60	115.50	
20.0		26.80	35.20	45.50	57.90	72.60	89.80	110.00	
25.0			33.30	43.10	54.80	68.70	85.00	104.00	125.50
30.0				40.60	51.60	64.70	80.10	98.00	118.50
35.0				38.10	48.50	60.80	75.20	92.00	111.50
40.0					45.30	56.80	70.30	86.00	104.50
45.0						52.70	65.30	80.00	97.10
50.0						48.60	60.30	73.90	89.80
55.0							55.30	67.80	82.50
60.0							50.20	61.70	
62.0								59.20	

50 Hz

6MTD-35X 100% Loaded

R407A Dew Point

Cond °C	Power, kW								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	10.20	11.60	12.90	14.00	14.80	15.05	14.70	13.60	
15.0		12.15	13.70	15.15	16.25	17.00	17.20	16.70	
20.0		12.70	14.45	16.10	17.60	18.75	19.50	19.60	
25.0			15.05	17.00	18.80	20.40	21.60	22.20	22.30
30.0				17.80	19.90	21.80	23.50	24.70	25.30
35.0				18.55	20.90	23.20	25.30	27.00	28.20
40.0					21.90	24.50	26.90	29.10	30.90
45.0						25.70	28.50	31.10	33.40
50.0						26.80	30.00	33.00	35.80
55.0							31.40	34.90	38.10
60.0							32.80	36.60	
62.0								37.30	

Cond °C	Current at 400 V, A								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	25.29	26.46	27.76	28.95	29.80	30.10	29.60	28.10	
15.0		26.94	28.54	30.14	31.53	32.46	32.72	32.09	
20.0		27.40	29.28	31.28	33.16	34.71	35.69	35.89	
25.0			30.00	32.35	34.71	36.84	38.52	39.52	39.62
30.0				33.39	36.18	38.86	41.21	42.99	43.98
35.0				34.39	37.59	40.80	43.78	46.30	48.15
40.0					38.95	42.65	46.23	49.48	52.15
45.0						44.43	48.59	52.52	55.99
50.0						46.15	50.85	55.44	59.69
55.0							53.04	58.25	63.24
60.0							55.15	60.96	
62.0								62.02	

Cond °C	Suction Mass Flow, g/s								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	105.00	139.00	182.50	236.00	302.00	380.00	473.00	581.00	
15.0		137.00	180.00	233.00	298.00	375.00	466.00	573.00	
20.0		134.50	177.00	229.00	293.00	369.00	459.00	565.00	
25.0			174.00	226.00	288.00	363.00	452.00	556.00	679.00
30.0				222.00	283.00	357.00	444.00	547.00	668.00
35.0				217.00	278.00	350.00	436.00	538.00	657.00
40.0					272.00	343.00	428.00	528.00	646.00
45.0						336.00	419.00	517.00	634.00
50.0						328.00	409.00	506.00	621.00
55.0							399.00	495.00	608.00
60.0							389.00	483.00	
62.0								478.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m³/h	135
Bore/Stroke, mm	75.7/57.5
Length/Width, mm	725/547
Height, mm	450
Net Weight, kg	227
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 Power with Sound Shell (MT), dBA	73
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	2107
Refrigerant's classification	A1

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

Maximum Operating Current, A	67.3
Locked Rotor Current, A	255
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
Digital Modulation	33-66%
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
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