



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		31.70	41.40	53.30	67.60	84.60	104.50	127.50	
15.0			39.20	50.50	64.10	80.10	98.90	120.50	145.50
20.0			37.10	47.80	60.60	75.80	93.60	114.00	138.00
25.0				45.20	57.30	71.60	88.40	108.00	130.50
30.0				42.60	54.00	67.50	83.30	101.50	123.00
35.0					50.80	63.40	78.30	95.50	115.50
40.0						59.40	73.30	89.50	108.00
45.0							68.40	83.50	101.00
50.0							63.50	77.60	93.90
55.0								71.70	
59.8									

50 Hz

6MTD-35X 100% Loaded

R407F 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		11.80	13.05	14.20	15.30	16.25	17.05	17.70	
15.0			14.00	15.35	16.65	17.80	18.80	19.70	20.30
20.0			14.90	16.50	18.00	19.35	20.60	21.70	22.60
25.0				17.60	19.30	21.00	22.50	23.80	25.00
30.0				18.65	20.60	22.50	24.30	25.90	27.40
35.0					21.90	24.10	26.20	28.10	29.90
40.0						25.60	28.00	30.30	32.40
45.0							29.80	32.40	34.90
50.0							31.60	34.60	37.40
55.0								36.70	
59.8									

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		26.61	27.79	29.06	30.33	31.51	32.52	33.25	
15.0			28.80	30.36	31.94	33.45	34.81	35.91	36.68
20.0			29.84	31.72	33.64	35.52	37.25	38.75	39.94
25.0				33.11	35.41	37.67	39.81	41.75	43.39
30.0				34.50	37.20	39.88	42.47	44.87	46.99
35.0					38.98	42.12	45.18	48.07	50.70
40.0						44.35	47.91	51.32	54.50
45.0							50.63	54.59	58.34
50.0							53.30	57.85	62.21
55.0								61.06	
59.8									

50 Hz

6MTD-35X 100% Loaded

R407F Dew Point

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		134.00	175.50	227.00	289.00	364.00	452.00	555.00	
15.0			172.00	222.00	283.00	356.00	442.00	544.00	662.00
20.0			168.50	218.00	277.00	349.00	433.00	533.00	649.00
25.0				213.00	272.00	341.00	424.00	522.00	637.00
30.0				209.00	266.00	334.00	416.00	511.00	624.00
35.0					260.00	327.00	407.00	501.00	612.00
40.0						320.00	398.00	491.00	600.00
45.0							389.00	480.00	587.00
50.0							381.00	470.00	576.00
55.0								460.00	
59.8									

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	73
Sound Power (MT), dBA	84
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	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