



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	19.20	25.60	33.70	43.70	55.70	69.90	86.60	106.00	
15.0		24.30	32.10	41.60	53.00	66.50	82.40	100.50	
20.0		23.00	30.40	39.50	50.30	63.20	78.20	95.60	
25.0			28.70	37.30	47.60	59.80	74.00	90.50	109.50
30.0				35.10	44.90	56.30	69.80	85.40	103.50
35.0				32.90	42.10	52.90	65.50	80.20	97.10
40.0					39.30	49.40	61.30	75.00	90.90
45.0						45.90	57.00	69.80	84.60
50.0						42.30	52.60	64.50	78.30
55.0							48.20	59.20	72.00
60.0							43.70	53.90	
62.0								51.70	

50 Hz

6MMD-30X 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	8.90	10.10	11.20	12.25	13.10	13.80	14.30	14.50	
15.0		10.60	11.90	13.10	14.20	15.10	15.80	16.25	
20.0		11.15	12.60	14.00	15.30	16.45	17.40	18.10	
25.0			13.25	14.85	16.35	17.75	18.95	19.95	20.70
30.0				15.70	17.45	19.05	20.50	21.80	22.80
35.0				16.45	18.45	20.30	22.10	23.70	25.00
40.0					19.40	21.60	23.60	25.50	27.10
45.0						22.70	25.10	27.20	29.20
50.0						23.80	26.40	28.90	31.30
55.0							27.70	30.60	33.20
60.0							28.90	32.10	
62.0								32.60	

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	24.26	25.07	26.04	27.05	28.00	28.77	29.25	29.34	
15.0		25.47	26.65	27.91	29.14	30.24	31.08	31.56	
20.0		25.93	27.33	28.86	30.39	31.82	33.04	33.94	
25.0			28.04	29.85	31.70	33.49	35.10	36.43	37.36
30.0				30.85	33.04	35.20	37.23	39.00	40.42
35.0				31.83	34.37	36.92	39.37	41.61	43.53
40.0					35.66	38.62	41.51	44.23	46.67
45.0						40.25	43.60	46.82	49.80
50.0						41.78	45.61	49.35	52.87
55.0							47.50	51.77	55.87
60.0							49.24	54.05	
62.0								54.92	

50 Hz

6MMD-30X 100% Loaded

R407A 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	89.40	119.50	158.00	205.00	262.00	331.00	412.00	506.00	
15.0		117.50	155.50	202.00	259.00	326.00	406.00	499.00	
20.0		115.00	152.50	199.00	255.00	321.00	400.00	492.00	
25.0			150.00	195.50	250.00	316.00	394.00	485.00	591.00
30.0				192.00	246.00	311.00	387.00	477.00	582.00
35.0				188.00	241.00	305.00	380.00	469.00	573.00
40.0					236.00	299.00	373.00	460.00	563.00
45.0						292.00	365.00	451.00	553.00
50.0						285.00	357.00	442.00	542.00
55.0							348.00	432.00	531.00
60.0							339.00	422.00	
62.0								418.00	

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	221
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
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	59.7
Locked Rotor Current, A	255
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

CoreSense Protection (-P)	Motor protection
Oil Pressure Switch (-P)	OPS2 Sensor
Mounting Parts	Spring
Copeland Compressor Electronic (-N)	Oil pressure, motor and discharge line temperature protection; advanced diagnostics features and power measurement

ACCESSORIES OPTIONAL

Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Digital Driver	EC3-D23
Digital Modulation	33-66%
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
Copeland Compressor Electronic module	Modbus extension module
Discharge Shut-off	Angle valve

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