



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

6MMD-30X 100% Loaded

R134a

Cond °C	Cooling Capacity, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	33.40	42.80	54.30					
15.0	31.60	40.60	51.60	64.80				
20.0	29.70	38.40	48.90	61.50	76.40			
25.0	27.90	36.20	46.20	58.20	72.40	88.90	96.20	
30.0	26.10	34.00	43.50	54.90	68.40	84.10	91.10	102.50
35.0	24.30	31.80	40.80	51.60	64.40	79.40	86.00	96.70
40.0	22.50	29.60	38.10	48.30	60.40	74.60	80.90	91.10
45.0	20.70	27.40	35.40	45.00	56.40	69.80	75.70	85.40
50.0	18.85	25.20	32.70	41.70	52.40	65.00	70.60	79.70
55.0	17.00	23.00	30.00	38.40	48.30	60.10	65.40	73.90
60.0		20.70	27.20	35.00	44.30	55.20	60.20	68.20
65.0			24.50	31.60	40.20	50.30	54.90	62.40
70.0			21.70	28.20	36.00	45.40	49.60	56.50
75.0				24.80	31.90	40.40	44.30	50.60
80.0				21.30	27.70	35.40	38.90	44.70

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	8.44	8.90	9.14					
15.0	9.05	9.70	10.15	10.30				
20.0	9.65	10.45	11.10	11.50	11.60			
25.0	10.20	11.20	12.05	12.65	13.00	13.00	12.90	
30.0	10.75	11.90	12.95	13.75	14.35	14.65	14.65	14.55
35.0	11.25	12.55	13.80	14.85	15.65	16.20	16.35	16.45
40.0	11.70	13.20	14.60	15.85	16.90	17.70	17.95	18.25
45.0	12.15	13.75	15.35	16.80	18.10	19.15	19.50	19.95
50.0	12.50	14.25	16.00	17.70	19.20	20.50	21.00	21.60
55.0	12.85	14.75	16.65	18.50	20.20	21.80	22.40	23.20
60.0		15.15	17.20	19.25	21.20	23.00	23.70	24.70
65.0			17.70	19.95	22.10	24.20	24.90	26.10
70.0			18.10	20.50	22.90	25.20	26.10	27.40
75.0				21.10	23.60	26.20	27.10	28.60
80.0				21.50	24.30	27.00	28.10	29.70

50 Hz

6MMD-30X 100% Loaded

R134a

Cond °C	Current at 400 V, A							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	23.54	23.88	24.01					
15.0	23.99	24.55	24.94	25.05				
20.0	24.48	25.25	25.90	26.30	26.36			
25.0	24.99	25.98	26.87	27.57	27.96	27.93	27.77	
30.0	25.51	26.71	27.86	28.84	29.56	29.90	29.90	29.75
35.0	26.02	27.43	28.83	30.10	31.15	31.85	32.01	32.11
40.0	26.52	28.14	29.78	31.34	32.71	33.78	34.09	34.44
45.0	26.99	28.81	30.70	32.54	34.23	35.66	36.13	36.72
50.0	27.42	29.44	31.57	33.69	35.70	37.49	38.12	38.95
55.0	27.79	30.01	32.37	34.77	37.10	39.25	40.03	41.11
60.0		30.51	33.11	35.78	38.42	40.93	41.86	43.18
65.0			33.75	36.70	39.66	42.51	43.60	45.15
70.0			34.30	37.52	40.78	43.99	45.23	47.02
75.0				38.22	41.79	45.34	46.73	48.76
80.0				38.79	42.67	46.56	48.10	50.37

Cond °C	Suction Mass Flow, g/s							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	185.00	232.00	290.00					
15.0	181.50	229.00	286.00	353.00				
20.0	178.50	226.00	282.00	348.00	425.00			
25.0	175.00	222.00	278.00	344.00	420.00	506.00	544.00	
30.0	171.50	219.00	274.00	339.00	414.00	500.00	537.00	597.00
35.0	167.50	215.00	270.00	334.00	408.00	493.00	530.00	589.00
40.0	163.50	210.00	265.00	328.00	402.00	486.00	522.00	581.00
45.0	159.00	206.00	260.00	323.00	395.00	478.00	514.00	573.00
50.0	154.50	201.00	254.00	316.00	388.00	470.00	506.00	564.00
55.0	149.00	195.50	248.00	309.00	380.00	461.00	497.00	554.00
60.0		189.50	242.00	302.00	371.00	452.00	487.00	544.00
65.0			234.00	294.00	362.00	441.00	476.00	532.00
70.0			226.00	285.00	352.00	430.00	465.00	521.00
75.0				275.00	341.00	418.00	453.00	508.00
80.0				264.00	329.00	406.00	440.00	495.00

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /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	71
Sound Power (MT), dBA	82
Sound Power with Sound Shell (MT), dBA	67
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	1430
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

<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