



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

Additional restrictions, please see application guidelines

50 Hz

6MMD-30X

R513A

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	29.00								
20.0	27.70	34.70							
25.0	26.00	32.80	40.90	50.60					
30.0	24.40	30.90	38.70	48.00	58.80	71.40			
35.0	22.70	29.00	36.40	45.20	55.50	67.50	81.30	87.30	97.00
40.0	21.10	27.00	34.10	42.40	52.20	63.50	76.50	82.20	91.30
45.0	19.45	25.00	31.70	39.50	48.70	59.30	71.50	76.90	85.50
50.0	17.75	23.00	29.30	36.60	45.20	55.10	66.50	71.50	79.50
55.0		21.00	26.80	33.60	41.60	50.80	61.30	66.00	73.40
60.0		19.00	24.30	30.60	37.90	46.40	56.10	60.30	67.10
65.0			21.80	27.50	34.20	41.80	50.70	54.60	60.80
70.0			19.25	24.40	30.30	37.20	45.20	48.70	54.30
75.0				21.20	26.40	32.60	39.60	42.70	47.70
80.0				17.90	22.50	27.80	33.90	36.60	40.90
85.0					18.45	23.00	28.10	30.40	34.10

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	9.15								
20.0	9.58	10.60							
25.0	10.10	11.25	12.20	12.90					
30.0	10.55	11.85	12.95	13.90	14.60	15.05			
35.0	10.95	12.35	13.65	14.80	15.70	16.45	16.90	17.05	17.15
40.0	11.30	12.85	14.30	15.60	16.75	17.70	18.50	18.70	19.00
45.0	11.60	13.30	14.90	16.40	17.75	18.95	19.95	20.30	20.80
50.0	11.80	13.65	15.40	17.10	18.65	20.10	21.40	21.80	22.50
55.0		13.95	15.85	17.70	19.45	21.10	22.70	23.30	24.10
60.0		14.15	16.20	18.25	20.20	22.10	23.90	24.60	25.60
65.0			16.50	18.70	20.90	23.00	25.10	25.90	27.00
70.0			16.70	19.10	21.40	23.80	26.10	27.00	28.40
75.0				19.35	21.90	24.50	27.10	28.10	29.60
80.0				19.55	22.30	25.10	27.90	29.00	30.70
85.0					22.60	25.60	28.60	29.90	31.70

Additional restrictions, please see application guidelines

50 Hz

6MMD-30X

R513A

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
16.0	24.40								
20.0	24.77	25.76							
25.0	25.23	26.38	27.38	28.19					
30.0	25.67	26.98	28.20	29.25	30.09	30.65			
35.0	26.08	27.55	28.98	30.29	31.43	32.33	32.94	33.08	33.19
40.0	26.45	28.08	29.71	31.28	32.72	33.97	34.96	35.28	35.65
45.0	26.77	28.56	30.39	32.21	33.95	35.54	36.93	37.42	38.06
50.0	27.03	28.98	31.01	33.08	35.11	37.05	38.83	39.48	40.39
55.0		29.32	31.56	33.87	36.20	38.47	40.64	41.46	42.63
60.0		29.58	32.02	34.58	37.20	39.81	42.36	43.35	44.79
65.0			32.39	35.19	38.10	41.05	43.98	45.14	46.84
70.0			32.65	35.69	38.89	42.17	45.49	46.81	48.77
75.0				36.08	39.56	43.18	46.87	48.36	50.58
80.0				36.34	40.10	44.05	48.12	49.77	52.26
85.0					40.51	44.78	49.23	51.04	53.79

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
16.0	161.00								
20.0	159.00	199.50							
25.0	156.00	196.50	246.00	305.00					
30.0	152.50	193.50	243.00	302.00	372.00	455.00			
35.0	149.00	190.50	240.00	299.00	369.00	451.00	546.00	588.00	656.00
40.0	145.50	186.50	236.00	295.00	365.00	446.00	541.00	583.00	651.00
45.0	141.50	183.00	232.00	291.00	360.00	441.00	536.00	577.00	645.00
50.0	137.50	179.00	228.00	286.00	355.00	436.00	530.00	571.00	638.00
55.0		174.50	223.00	281.00	350.00	430.00	523.00	564.00	631.00
60.0		169.50	218.00	276.00	343.00	423.00	515.00	556.00	623.00
65.0			212.00	269.00	336.00	415.00	507.00	548.00	614.00
70.0			206.00	262.00	328.00	406.00	498.00	539.00	605.00
75.0				254.00	320.00	397.00	488.00	529.00	595.00
80.0				245.00	311.00	388.00	480.00	520.00	587.00
85.0					304.00	383.00	476.00	518.00	587.00

Additional restrictions, please see application guidelines

### **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	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	631
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

Additional restrictions, please see application guidelines

## 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

Additional restrictions, please see application guidelines