



Minimum Evaporating Temp. With:	
<span style="color: pink;">—</span> 20 °C Suction Gas Return	<span style="color: orange;">—</span> 0 °C Suction Gas Return
<span style="color: blue;">—</span> Maximum Evaporating Temperature	

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Additional restrictions, please see application guidelines

50 Hz

6MT-35X

R513A

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	34.80	43.90	55.10	68.50					
15.0	32.80	41.50	52.20	65.10	80.20				
20.0	30.80	39.20	49.40	61.70	76.10	92.70			
25.0	28.90	36.90	46.60	58.30	72.00	87.80	106.00		
30.0	27.00	34.60	43.90	54.90	67.90	82.80	99.80	107.50	119.00
35.0	25.10	32.30	41.10	51.50	63.70	77.80	93.90	101.00	112.00
40.0	23.30	30.10	38.30	48.10	59.60	72.80	87.80	94.40	105.00
45.0	21.40	27.80	35.50	44.70	55.40	67.70	81.70	87.90	97.60
50.0	19.65	25.60	32.70	41.30	51.20	62.60	75.60	81.30	90.30
55.0		23.30	30.00	37.80	46.90	57.50	69.40	74.60	82.90
60.0		21.10	27.10	34.30	42.70	52.30	63.20	67.90	75.50
65.0			24.30	30.80	38.40	47.00	56.90	61.20	68.00
70.0			21.40	27.30	34.00	41.70	50.50	54.30	60.40
75.0				23.70	29.60	36.40	44.10	47.40	52.70
80.0				20.00	25.10	31.00	37.60	40.50	45.00
85.0					20.60	25.50	31.00	33.40	37.20

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	9.27	9.74	10.05	10.10					
15.0	10.00	10.75	11.25	11.55	11.60				
20.0	10.70	11.60	12.35	12.95	13.25	13.25			
25.0	11.25	12.40	13.40	14.20	14.80	15.10	15.05		
30.0	11.75	13.10	14.30	15.40	16.25	16.80	17.10	17.10	17.00
35.0	12.10	13.70	15.15	16.45	17.55	18.45	19.00	19.15	19.25
40.0	12.40	14.20	15.85	17.45	18.80	19.95	20.80	21.10	21.40
45.0	12.65	14.60	16.50	18.30	19.95	21.40	22.50	22.90	23.40
50.0	12.80	14.95	17.10	19.10	21.00	22.70	24.20	24.70	25.30
55.0		15.25	17.60	19.85	22.00	23.90	25.70	26.30	27.20
60.0		15.45	18.00	20.50	22.90	25.10	27.10	27.90	28.90
65.0			18.35	21.10	23.70	26.20	28.50	29.30	30.60
70.0			18.60	21.50	24.40	27.20	29.70	30.70	32.10
75.0				22.00	25.10	28.10	30.90	32.00	33.60
80.0				22.30	25.70	28.90	32.10	33.30	35.00
85.0					26.20	29.70	33.10	34.40	36.30

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50 Hz

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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
10.0	23.63	24.09	24.36	24.36					
15.0	24.39	25.12	25.70	26.03	26.02				
20.0	25.08	26.07	26.95	27.62	27.98	27.93			
25.0	25.69	26.94	28.13	29.13	29.87	30.22	30.10		
30.0	26.22	27.73	29.22	30.56	31.67	32.43	32.75	32.73	32.53
35.0	26.66	28.44	30.22	31.90	33.38	34.55	35.32	35.49	35.57
40.0	27.02	29.07	31.15	33.16	35.01	36.58	37.79	38.15	38.53
45.0	27.29	29.60	31.98	34.33	36.55	38.53	40.18	40.72	41.39
50.0	27.48	30.05	32.72	35.41	37.99	40.38	42.47	43.20	44.17
55.0		30.40	33.38	36.39	39.35	42.14	44.67	45.59	46.84
60.0		30.67	33.94	37.28	40.61	43.81	46.78	47.88	49.43
65.0			34.40	38.08	41.77	45.37	48.79	50.08	51.91
70.0			34.77	38.78	42.84	46.84	50.69	52.17	54.29
75.0				39.38	43.80	48.21	52.50	54.16	56.57
80.0				39.87	44.66	49.47	54.20	56.05	58.75
85.0					45.42	50.64	55.80	57.83	60.82

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
10.0	185.00	234.00	294.00	367.00					
15.0	181.00	230.00	290.00	362.00	447.00				
20.0	177.00	225.00	285.00	357.00	442.00	541.00			
25.0	172.50	221.00	280.00	352.00	436.00	534.00	647.00		
30.0	168.50	217.00	276.00	346.00	430.00	527.00	639.00	688.00	767.00
35.0	164.50	212.00	271.00	341.00	423.00	519.00	630.00	679.00	757.00
40.0	160.50	208.00	266.00	335.00	417.00	512.00	621.00	670.00	747.00
45.0	156.50	203.00	261.00	329.00	410.00	504.00	612.00	660.00	736.00
50.0	152.00	198.50	255.00	323.00	402.00	495.00	602.00	649.00	725.00
55.0		193.50	249.00	316.00	395.00	486.00	592.00	638.00	713.00
60.0		188.00	243.00	309.00	386.00	477.00	581.00	627.00	700.00
65.0			236.00	301.00	377.00	466.00	569.00	614.00	687.00
70.0			229.00	293.00	368.00	455.00	556.00	601.00	673.00
75.0				284.00	357.00	444.00	543.00	588.00	659.00
80.0				274.00	347.00	432.00	531.00	575.00	646.00
85.0					339.00	425.00	525.00	569.00	641.00

Additional restrictions, please see application guidelines

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

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /h	135
Bore/Stroke, mm	75.7/57.5
Length/Width, mm	725/547
Height, mm	450
Net Weight, kg	221
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	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	68
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
Refrigerant's GWP	631
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**

Mounting Parts	Spring
CoreSense Protection (-P)	Motor protection
Oil Pressure Switch (-P)	OPS2 Sensor
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

Check Valve	For unloaded start operation
Mounting Parts	Rubber
Adapter Kit	For Parallel Operation
Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 67/33 %
Oil Pressure Switch	OPS2 Electronic Switch
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Digital Modulation	33-100 %
Copeland Compressor Electronic module	Modbus extension module

## MOTOR OPTIONS

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
AWM	380-420 V / 3~ / 50 Hz	400	YY/Y	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	YY/Y	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YY/Y	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	YY/Y	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YY/Y	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YY/Y	Y	1.00

Additional restrictions, please see application guidelines