



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

6MTD-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
16.0	31.30								
20.0	30.10	38.00							
25.0	28.60	36.30	45.50	56.40					
30.0	27.20	34.60	43.30	53.70	65.80	79.90			
35.0	25.70	32.80	41.20	51.00	62.40	75.60	90.80	97.50	108.00
40.0	24.20	31.00	39.00	48.20	59.00	71.30	85.50	91.70	101.50
45.0	22.70	29.30	36.80	45.50	55.50	67.00	80.20	85.90	95.20
50.0	21.20	27.50	34.60	42.70	52.00	62.70	74.80	80.10	88.60
55.0		25.60	32.40	39.90	48.50	58.30	69.40	74.30	82.00
60.0		23.80	30.10	37.10	45.00	53.90	64.00	68.40	75.40
65.0			27.80	34.30	41.40	49.50	58.50	62.40	68.70
70.0			25.40	31.40	37.80	45.00	53.00	56.40	62.00
75.0				28.40	34.20	40.40	47.40	50.40	55.20
80.0				25.50	30.50	35.90	41.80	44.30	48.30
85.0					27.00	31.40	36.10	38.20	41.40

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	9.29								
20.0	9.78	10.75							
25.0	10.35	11.50	12.50	13.40					
30.0	10.85	12.15	13.40	14.45	15.35	16.00			
35.0	11.30	12.75	14.20	15.50	16.65	17.55	18.20	18.35	18.50
40.0	11.70	13.30	14.90	16.45	17.85	19.05	20.00	20.30	20.60
45.0	12.05	13.80	15.55	17.30	18.95	20.40	21.70	22.10	22.70
50.0	12.35	14.25	16.15	18.10	19.95	21.70	23.30	23.80	24.60
55.0		14.60	16.70	18.85	20.90	22.90	24.80	25.50	26.40
60.0		14.95	17.20	19.50	21.80	24.10	26.20	27.00	28.20
65.0			17.65	20.10	22.60	25.10	27.50	28.50	29.80
70.0			18.05	20.70	23.40	26.10	28.80	29.80	31.40
75.0				21.20	24.10	27.00	29.90	31.10	32.80
80.0				21.60	24.70	27.90	31.00	32.30	34.20
85.0					25.30	28.60	32.10	33.40	35.50

Additional restrictions, please see application guidelines

50 Hz

6MTD-35X

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	23.58								
20.0	24.08	25.14							
25.0	24.66	25.93	27.12	28.14					
30.0	25.21	26.68	28.12	29.45	30.57	31.37			
35.0	25.71	27.38	29.07	30.71	32.18	33.39	34.24	34.46	34.63
40.0	26.17	28.03	29.97	31.90	33.72	35.33	36.64	37.06	37.55
45.0	26.59	28.62	30.80	33.02	35.19	37.20	38.97	39.58	40.38
50.0	26.95	29.17	31.58	34.08	36.59	39.00	41.20	42.01	43.11
55.0		29.65	32.29	35.07	37.91	40.70	43.35	44.35	45.76
60.0		30.07	32.93	35.99	39.16	42.33	45.41	46.60	48.30
65.0			33.50	36.83	40.32	43.87	47.38	48.75	50.75
70.0			34.00	37.59	41.40	45.31	49.25	50.80	53.10
75.0				38.27	42.39	46.67	51.02	52.76	55.34
80.0				38.87	43.29	47.93	52.69	54.61	57.48
85.0					44.10	49.09	54.26	56.35	59.50

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	174.00								
20.0	172.50	219.00							
25.0	171.50	218.00	273.00	340.00					
30.0	170.00	217.00	272.00	339.00	417.00	508.00			
35.0	168.50	216.00	271.00	337.00	414.00	505.00	610.00	657.00	732.00
40.0	167.00	215.00	271.00	336.00	412.00	502.00	605.00	651.00	725.00
45.0	165.50	214.00	270.00	335.00	411.00	498.00	600.00	645.00	718.00
50.0	164.00	213.00	270.00	334.00	409.00	496.00	596.00	640.00	712.00
55.0		213.00	269.00	334.00	408.00	493.00	592.00	635.00	705.00
60.0		212.00	270.00	334.00	407.00	491.00	588.00	631.00	699.00
65.0			270.00	335.00	408.00	490.00	585.00	627.00	694.00
70.0			272.00	337.00	409.00	490.00	583.00	624.00	690.00
75.0				341.00	413.00	493.00	584.00	624.00	689.00
80.0				350.00	422.00	501.00	591.00	630.00	693.00
85.0					444.00	523.00	611.00	650.00	713.00

Additional restrictions, please see application guidelines

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	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
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	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

Additional restrictions, please see application guidelines

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

<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	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