



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

50 Hz

6MTD-35X

R450A Dew Point

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	23.10								
20.0	22.00	28.90							
25.0	20.50	27.10	35.20	45.00					
30.0	19.00	25.30	32.90	42.20	53.20	66.30			
35.0	17.55	23.50	30.70	39.40	49.80	62.10	76.60	83.00	93.30
40.0	16.00	21.70	28.50	36.70	46.50	58.00	71.60	77.60	87.40
45.0	14.50	19.95	26.40	34.00	43.20	54.00	66.70	72.40	81.60
50.0	12.95	18.15	24.20	31.40	39.90	50.00	61.90	67.20	75.80
55.0	11.35	16.30	22.00	28.70	36.60	46.00	57.10	62.10	70.20
60.0	9.75	14.50	19.85	26.10	33.40	42.10	52.40	57.00	64.50
65.0	8.12	12.65	17.65	23.40	30.20	38.20	47.70	52.00	59.00
70.0	6.49	10.75	15.45	20.80	27.00	34.40	43.10	47.10	53.50
75.0		8.88	13.25	18.20	23.90	30.60	38.50	42.10	48.00
80.0			11.05	15.55	20.70	26.70	34.00	37.20	42.60
85.0			8.85	12.90	17.55	23.00	29.40	32.40	37.30

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
16.0	8.65								
20.0	9.02	9.75							
25.0	9.44	10.35	11.10	11.75					
30.0	9.83	10.90	11.85	12.70	13.35	13.80			
35.0	10.15	11.40	12.55	13.60	14.45	15.15	15.60	15.75	15.80
40.0	10.45	11.85	13.20	14.45	15.55	16.45	17.20	17.40	17.65
45.0	10.75	12.25	13.75	15.20	16.55	17.70	18.70	19.00	19.45
50.0	10.95	12.65	14.30	15.95	17.45	18.85	20.10	20.60	21.10
55.0	11.10	12.95	14.80	16.60	18.35	19.95	21.50	22.00	22.80
60.0	11.20	13.20	15.20	17.20	19.15	21.00	22.70	23.40	24.30
65.0	11.25	13.40	15.55	17.75	19.90	22.00	23.90	24.70	25.80
70.0	11.30	13.55	15.85	18.20	20.50	22.80	25.10	25.90	27.20
75.0		13.60	16.10	18.60	21.10	23.70	26.10	27.10	28.50
80.0			16.25	18.95	21.70	24.40	27.10	28.10	29.70
85.0			16.35	19.20	22.10	25.00	27.90	29.10	30.80

50 Hz

6MTD-35X

R450A Dew Point

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	22.93								
20.0	23.29	24.05							
25.0	23.73	24.68	25.54	26.25					
30.0	24.14	25.27	26.36	27.33	28.12	28.65			
35.0	24.52	25.84	27.15	28.38	29.46	30.33	30.91	31.04	31.13
40.0	24.86	26.36	27.89	29.38	30.76	31.96	32.92	33.21	33.55
45.0	25.16	26.84	28.59	30.34	32.02	33.55	34.88	35.33	35.92
50.0	25.40	27.27	29.24	31.25	33.22	35.09	36.78	37.40	38.23
55.0	25.58	27.64	29.83	32.10	34.37	36.57	38.63	39.40	40.49
60.0	25.70	27.94	30.35	32.88	35.44	37.98	40.41	41.34	42.68
65.0	25.74	28.16	30.80	33.59	36.45	39.31	42.12	43.21	44.79
70.0	25.71	28.31	31.17	34.21	37.37	40.57	43.74	44.99	46.82
75.0		28.37	31.45	34.75	38.20	41.74	45.28	46.69	48.77
80.0			31.64	35.20	38.95	42.81	46.73	48.29	50.62
85.0			31.74	35.55	39.59	43.79	48.07	49.79	52.37

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	145.00								
20.0	142.50	183.00							
25.0	139.00	179.50	228.00	285.00					
30.0	135.50	176.00	224.00	280.00	346.00	422.00			
35.0	132.00	172.50	220.00	275.00	340.00	414.00	499.00	536.00	596.00
40.0	127.50	168.00	215.00	270.00	334.00	407.00	490.00	527.00	585.00
45.0	122.50	163.50	211.00	265.00	327.00	399.00	481.00	517.00	575.00
50.0	117.00	158.50	206.00	259.00	321.00	391.00	472.00	507.00	564.00
55.0	110.00	153.00	200.00	253.00	314.00	383.00	463.00	497.00	553.00
60.0	102.50	146.50	194.00	247.00	307.00	375.00	453.00	487.00	542.00
65.0	93.00	139.00	187.50	240.00	299.00	366.00	443.00	477.00	531.00
70.0	81.90	130.00	179.50	232.00	291.00	357.00	433.00	466.00	520.00
75.0		119.50	170.50	224.00	282.00	348.00	422.00	455.00	508.00
80.0			160.50	215.00	273.00	338.00	412.00	445.00	497.00
85.0			148.50	205.00	264.00	329.00	402.00	435.00	487.00

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	605
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

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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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