



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

6MTD-35X 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	38.30	48.90	61.80					
15.0	36.20	46.30	58.70	73.40				
20.0	34.00	43.80	55.60	69.70	86.20			
25.0	31.90	41.20	52.50	65.90	81.60	100.00	108.00	
30.0	29.80	38.70	49.40	62.10	77.10	94.50	102.50	114.50
35.0	27.70	36.20	46.30	58.30	72.50	89.00	96.40	108.00
40.0	25.60	33.60	43.20	54.50	67.90	83.50	90.50	101.50
45.0	23.50	31.10	40.00	50.70	63.20	78.00	84.60	95.20
50.0	21.40	28.50	36.90	46.80	58.60	72.40	78.60	88.60
55.0	19.20	25.90	33.70	43.00	53.90	66.90	72.60	82.00
60.0		23.30	30.50	39.10	49.20	61.20	66.60	75.40
65.0			27.30	35.20	44.50	55.60	60.60	68.70
70.0			24.10	31.20	39.70	49.90	54.50	62.00
75.0				27.30	34.90	44.10	48.30	55.20
80.0				23.20	30.10	38.30	42.10	48.30

Cond °C	Power, kW							
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	9.09	9.47	9.58					
15.0	9.96	10.55	10.95	11.00				
20.0	10.75	11.60	12.20	12.55	12.55			
25.0	11.50	12.50	13.40	14.00	14.35	14.30	14.20	
30.0	12.15	13.40	14.45	15.35	16.00	16.30	16.35	16.25
35.0	12.75	14.20	15.50	16.65	17.55	18.20	18.35	18.50
40.0	13.30	14.90	16.45	17.85	19.05	20.00	20.30	20.60
45.0	13.80	15.55	17.30	18.95	20.40	21.70	22.10	22.70
50.0	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		17.20	19.50	21.80	24.10	26.20	27.00	28.20
65.0			20.10	22.60	25.10	27.50	28.50	29.80
70.0			20.70	23.40	26.10	28.80	29.80	31.40
75.0				24.10	27.00	29.90	31.10	32.80
80.0				24.70	27.90	31.00	32.30	34.20

50 Hz

6MTD-35X 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	23.43	23.82	23.87					
15.0	24.30	24.96	25.35	25.36				
20.0	25.13	26.07	26.77	27.15	27.12			
25.0	25.93	27.12	28.14	28.89	29.27	29.19	29.01	
30.0	26.67	28.12	29.45	30.57	31.37	31.75	31.77	31.63
35.0	27.37	29.07	30.70	32.17	33.38	34.24	34.45	34.63
40.0	28.02	29.96	31.89	33.72	35.33	36.64	37.06	37.55
45.0	28.62	30.80	33.02	35.19	37.20	38.96	39.57	40.37
50.0	29.16	31.57	34.08	36.58	38.99	41.20	42.00	43.11
55.0	29.64	32.28	35.07	37.91	40.70	43.35	44.34	45.75
60.0		32.92	35.98	39.15	42.32	45.40	46.59	48.30
65.0			36.82	40.31	43.86	47.37	48.74	50.74
70.0			37.58	41.39	45.30	49.24	50.79	53.09
75.0				42.38	46.66	51.01	52.75	55.33
80.0				43.28	47.92	52.68	54.60	57.47

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	212.00	266.00	330.00					
15.0	208.00	262.00	325.00	400.00				
20.0	204.00	258.00	321.00	395.00	480.00			
25.0	200.00	253.00	316.00	389.00	473.00	569.00	611.00	
30.0	196.00	249.00	311.00	383.00	466.00	561.00	603.00	669.00
35.0	191.50	244.00	306.00	377.00	459.00	553.00	594.00	659.00
40.0	186.50	239.00	300.00	370.00	451.00	544.00	584.00	649.00
45.0	181.00	233.00	294.00	363.00	443.00	534.00	574.00	638.00
50.0	175.00	227.00	287.00	355.00	434.00	524.00	563.00	627.00
55.0	168.50	221.00	279.00	347.00	424.00	513.00	552.00	614.00
60.0		213.00	271.00	337.00	413.00	501.00	539.00	601.00
65.0			262.00	327.00	402.00	487.00	525.00	586.00
70.0			251.00	315.00	389.00	473.00	510.00	571.00
75.0				302.00	374.00	457.00	494.00	554.00
80.0				288.00	358.00	440.00	476.00	535.00

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	1430
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