



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 20 °C Suction Gas Return with add cooling
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	16.05	21.70	29.00	38.20	49.40	62.90	78.80			
10.0	14.75	20.20	27.20	36.00	46.70	59.50	74.70	92.50	113.00	
15.0	13.40	18.65	25.30	33.60	43.80	56.00	70.40	87.30	107.00	129.50
20.0	12.00	17.05	23.40	31.20	40.70	52.20	65.90	81.90	100.50	122.00
25.0		15.35	21.30	28.60	37.60	48.40	61.20	76.40	94.10	114.50
30.0		13.60	19.15	26.00	34.30	44.40	56.40	70.60	87.30	106.50
35.0			16.95	23.30	30.90	40.30	51.40	64.70	80.40	98.60
40.0			14.80	20.50	27.50	36.00	46.30	58.70	73.30	90.40
45.0				17.70	24.00	31.70	41.20	52.50	66.00	82.00
50.0					20.50	27.40	35.90	46.20	58.60	73.40
55.0					17.00	23.00	30.60	39.80	51.10	64.70
60.0						18.70	25.20	33.40	43.40	
62.0						16.95	23.10	30.80	40.40	

50 Hz

6MTD-35X 100% Loaded

R404A Dew Point

Cond °C	Power, kW									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	8.86	10.20	11.45	12.60	13.50	14.15	14.45			
10.0	9.33	10.80	12.30	13.65	14.80	15.75	16.35	16.60	16.35	
15.0	9.68	11.35	12.95	14.55	16.00	17.20	18.15	18.70	18.90	18.55
20.0	9.91	11.70	13.55	15.35	17.00	18.55	19.80	20.70	21.30	21.40
25.0		12.00	14.00	16.00	17.95	19.75	21.30	22.60	23.60	24.10
30.0		12.15	14.35	16.60	18.75	20.80	22.70	24.40	25.70	26.60
35.0			14.60	17.05	19.50	21.80	24.10	26.00	27.80	29.10
40.0			14.80	17.45	20.10	22.70	25.30	27.60	29.70	31.50
45.0				17.75	20.70	23.60	26.40	29.10	31.50	33.70
50.0					21.10	24.30	27.40	30.50	33.30	35.90
55.0					21.50	25.00	28.40	31.80	35.00	38.00
60.0						25.60	29.40	33.10	36.60	
62.0						25.80	29.70	33.50	37.30	

Cond °C	Current at 400 V, A									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	23.70	24.97	26.31	27.62	28.79	29.72	30.31			
10.0	24.18	25.63	27.20	28.79	30.29	31.60	32.62	33.25	33.37	
15.0	24.55	26.18	27.98	29.85	31.69	33.39	34.85	35.96	36.63	36.74
20.0	24.80	26.61	28.65	30.81	32.99	35.08	36.98	38.59	39.80	40.51
25.0		26.93	29.21	31.67	34.19	36.68	39.03	41.13	42.89	44.20
30.0		27.14	29.67	32.42	35.29	38.18	40.98	43.59	45.90	47.82
35.0			30.00	33.06	36.28	39.58	42.83	45.95	48.82	51.35
40.0			30.23	33.59	37.17	40.88	44.59	48.23	51.66	54.81
45.0				34.01	37.96	42.08	46.26	50.41	54.42	58.18
50.0					38.64	43.18	47.83	52.50	57.08	61.47
55.0					39.22	44.18	49.31	54.51	59.66	64.68
60.0						45.08	50.69	56.41	62.16	
62.0						45.41	51.21	57.15	63.13	

50 Hz

6MTD-35X 100% Loaded

R404A Dew Point

Cond °C	Suction Mass Flow, g/s									
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	116.00	153.00	200.00	258.00	327.00	408.00	501.00			
10.0	112.50	150.50	198.00	255.00	324.00	405.00	497.00	604.00	724.00	
15.0	108.00	146.50	194.50	252.00	320.00	400.00	493.00	598.00	718.00	853.00
20.0	103.00	142.00	190.00	247.00	315.00	394.00	486.00	592.00	711.00	846.00
25.0		136.50	184.00	241.00	309.00	387.00	478.00	583.00	702.00	837.00
30.0		130.00	177.50	234.00	301.00	379.00	469.00	573.00	692.00	827.00
35.0			170.00	226.00	291.00	369.00	458.00	562.00	680.00	814.00
40.0			161.50	216.00	281.00	357.00	445.00	548.00	666.00	801.00
45.0				205.00	268.00	343.00	431.00	532.00	650.00	785.00
50.0					255.00	328.00	414.00	515.00	633.00	768.00
55.0					239.00	311.00	396.00	496.00	614.00	751.00
60.0						292.00	376.00	477.00	596.00	
62.0						285.00	369.00	469.00	589.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /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 (LT), dBA	77
Sound Power (LT), dBA	88
Sound Power with Sound Shell (LT), dBA	74
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	73
Sound Power (MT), dBA	84
Sound Power with Sound Shell (MT), dBA	72
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	3922
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

<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