



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 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

6MJD-45X

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	12.5	15.0	20.0	25.0
16.0	23.80												
20.0	22.60	29.00											
25.0	21.00	27.20	35.00	44.40									
30.0	19.45	25.40	32.80	41.80	52.70	65.50							
35.0	17.85	23.50	30.50	39.10	49.40	61.70	76.10	82.50	92.80	102.00			
40.0	16.25	21.60	28.30	36.40	46.10	57.80	71.50	77.60	87.40	96.20	105.50	126.50	
45.0	14.70	19.75	26.00	33.60	42.80	53.80	66.80	72.60	81.90	90.30	99.40	119.50	142.00
50.0	13.15	17.85	23.70	30.80	39.50	49.80	62.00	67.50	76.30	84.30	92.90	112.00	133.50
55.0	11.65	16.00	21.40	28.10	36.10	45.80	57.30	62.40	70.70	78.20	86.40	104.50	125.00
60.0	10.15	14.20	19.20	25.30	32.80	41.70	52.40	57.30	65.10	72.10	79.80	96.80	116.00
65.0	8.75	12.40	16.95	22.60	29.40	37.70	47.60	52.10	59.40	66.00	73.10	89.10	107.50
70.0	7.40	10.70	14.80	19.85	26.10	33.60	42.80	46.90	53.70	59.80	66.50	81.40	98.60
75.0		9.04	12.65	17.15	22.70	29.60	37.90	41.70	47.90	53.60	59.80	73.60	89.80
80.0			10.60	14.50	19.45	25.60	33.10	36.50	42.20	47.40	53.10	65.90	80.80
85.0			8.59	11.95	16.25	21.60	28.30	31.40	36.50	41.20	46.30	58.10	71.90

Cond °C	Power, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
16.0	8.48												
20.0	8.86	9.60											
25.0	9.30	10.20	11.00	11.65									
30.0	9.68	10.70	11.70	12.60	13.30	13.80							
35.0	10.00	11.20	12.35	13.40	14.35	15.15	15.70	15.85	16.00	16.00			
40.0	10.30	11.60	12.90	14.15	15.35	16.35	17.20	17.50	17.80	18.00	18.10	18.10	
45.0	10.55	11.95	13.35	14.80	16.20	17.50	18.60	19.00	19.55	19.90	20.20	20.50	20.50
50.0	10.70	12.20	13.80	15.40	17.00	18.50	19.90	20.40	21.10	21.60	22.10	22.80	23.20
55.0	10.85	12.40	14.10	15.90	17.65	19.40	21.10	21.70	22.60	23.30	23.90	25.00	25.70
60.0	10.90	12.55	14.35	16.30	18.25	20.20	22.10	22.80	23.90	24.70	25.50	27.00	28.10
65.0	10.90	12.65	14.55	16.60	18.75	20.90	23.00	23.90	25.10	26.10	27.00	28.80	30.30
70.0	10.85	12.65	14.65	16.80	19.10	21.50	23.80	24.80	26.20	27.30	28.40	30.50	32.40
75.0		12.60	14.65	16.95	19.40	21.90	24.50	25.60	27.10	28.40	29.60	32.00	34.30
80.0			14.60	17.00	19.60	22.30	25.10	26.20	27.90	29.30	30.70	33.40	36.00
85.0			14.45	16.95	19.65	22.50	25.50	26.70	28.60	30.10	31.60	34.70	37.60

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	12.5	15.0	20.0	25.0
16.0	27.11												
20.0	27.42	28.12											
25.0	27.79	28.61	29.40	30.06									
30.0	28.13	29.08	30.04	30.92	31.66	32.17							
35.0	28.46	29.51	30.63	31.74	32.75	33.59	34.18	34.33	34.44	34.42			
40.0	28.74	29.90	31.17	32.49	33.77	34.94	35.90	36.22	36.59	36.81	36.93	36.82	
45.0	28.99	30.23	31.66	33.18	34.72	36.20	37.53	38.01	38.65	39.10	39.46	39.90	39.87
50.0	29.18	30.51	32.08	33.79	35.58	37.37	39.07	39.70	40.60	41.28	41.88	42.84	43.40
55.0	29.33	30.73	32.43	34.33	36.36	38.44	40.49	41.29	42.43	43.34	44.18	45.66	46.79
60.0	29.41	30.88	32.70	34.78	37.05	39.42	41.81	42.76	44.15	45.27	46.36	48.35	50.04
65.0	29.42	30.96	32.89	35.14	37.63	40.28	43.01	44.11	45.74	47.08	48.39	50.89	53.14
70.0	29.37	30.95	32.99	35.40	38.11	41.03	44.09	45.33	47.20	48.75	50.29	53.28	56.08
75.0		30.85	32.99	35.55	38.47	41.66	45.03	46.42	48.52	50.28	52.04	55.51	58.86
80.0			32.89	35.60	38.71	42.15	45.84	47.37	49.70	51.66	53.64	57.59	61.47
85.0			32.67	35.52	38.83	42.52	46.51	48.17	50.72	52.89	55.08	59.49	63.90

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	12.5	15.0	20.0	25.0
16.0	149.00												
20.0	146.50	184.50											
25.0	143.00	180.50	227.00	282.00									
30.0	138.50	176.50	223.00	278.00	342.00	417.00							
35.0	134.50	172.50	218.00	273.00	337.00	411.00	496.00	533.00	593.00	645.00			
40.0	129.50	167.50	213.00	267.00	331.00	405.00	489.00	526.00	585.00	638.00	693.00	813.00	
45.0	124.00	162.00	208.00	261.00	325.00	398.00	482.00	518.00	577.00	629.00	684.00	804.00	938.00
50.0	118.50	156.50	201.00	255.00	317.00	390.00	473.00	510.00	568.00	620.00	675.00	794.00	927.00
55.0	113.00	150.00	195.00	247.00	309.00	381.00	464.00	500.00	558.00	609.00	664.00	783.00	916.00
60.0	106.50	143.50	187.50	240.00	301.00	371.00	453.00	489.00	547.00	598.00	652.00	771.00	904.00
65.0	100.00	136.50	180.00	231.00	291.00	361.00	442.00	477.00	535.00	586.00	640.00	758.00	891.00
70.0	93.40	129.50	171.50	222.00	280.00	349.00	429.00	465.00	521.00	572.00	626.00	744.00	877.00
75.0		121.50	163.00	211.00	269.00	337.00	416.00	451.00	507.00	558.00	611.00	730.00	862.00
80.0			153.50	201.00	257.00	323.00	402.00	436.00	492.00	543.00	596.00	715.00	848.00
85.0			144.00	189.50	244.00	309.00	387.00	421.00	477.00	527.00	581.00	701.00	835.00

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	229
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	81.5
Locked Rotor Current, A	304
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

ACCESSORIES OPTIONAL

Check Valve	For unloaded start operation
Mounting Parts	Rubber
Digital Modulation	33-66%
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Adapter Kit	For Parallel Operation
Digital Driver	EC3-D23
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