



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 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

50 Hz

6MJ-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
10.0	27.30	34.30	43.10	53.80									
15.0	25.90	32.80	41.20	51.50	63.80								
20.0	24.50	31.10	39.30	49.10	60.90	74.80							
25.0	23.10	29.40	37.20	46.70	57.90	71.20	86.60						
30.0	21.70	27.70	35.20	44.20	54.90	67.50	82.20	88.70	99.10	108.50			
35.0	20.20	26.00	33.10	41.60	51.80	63.70	77.70	83.80	93.70	102.50	112.00		
40.0	18.75	24.30	31.00	39.00	48.60	59.90	73.10	78.90	88.30	96.70	105.50		
45.0	17.30	22.50	28.80	36.40	45.40	56.00	68.40	73.90	82.70	90.60	99.10		
50.0	15.85	20.70	26.60	33.70	42.20	52.10	63.70	68.80	77.10	84.50	92.40		
55.0		19.00	24.50	31.10	38.90	48.20	59.00	63.70	71.40	78.30	85.70		
60.0		17.25	22.30	28.40	35.70	44.20	54.20	58.60	65.70	72.10	78.90		
65.0			20.20	25.80	32.40	40.20	49.40	53.40	60.00	65.80	72.10		
70.0			18.05	23.10	29.10	36.20	44.50	48.20	54.20	59.60	65.30		
75.0				20.50	25.80	32.20	39.70	43.00	48.40	53.20	58.40		
80.0				17.80	22.60	28.20	34.90	37.80	42.60	46.90	51.60		
85.0					19.35	24.20	30.10	32.70	36.90	40.60	44.70		

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
10.0	7.84	8.25	8.48	8.46									
15.0	8.37	8.96	9.39	9.61	9.58								
20.0	8.86	9.60	10.25	10.70	10.90	10.85							
25.0	9.30	10.20	11.00	11.65	12.15	12.40	12.35						
30.0	9.68	10.70	11.70	12.60	13.30	13.80	14.10	14.10	14.00	13.85			
35.0	10.00	11.20	12.35	13.40	14.35	15.15	15.70	15.85	16.00	16.00	15.95		
40.0	10.30	11.60	12.90	14.15	15.35	16.35	17.20	17.50	17.80	18.00	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		
50.0	10.70	12.20	13.80	15.40	17.00	18.50	19.90	20.40	21.10	21.60	22.10		
55.0		12.40	14.10	15.90	17.65	19.40	21.10	21.70	22.60	23.30	23.90		
60.0		12.55	14.35	16.30	18.25	20.20	22.10	22.80	23.90	24.70	25.50		
65.0			14.55	16.60	18.75	20.90	23.00	23.90	25.10	26.10	27.00		
70.0			14.65	16.80	19.10	21.50	23.80	24.80	26.20	27.30	28.40		
75.0				16.95	19.40	21.90	24.50	25.60	27.10	28.40	29.60		
80.0				17.00	19.60	22.30	25.10	26.20	27.90	29.30	30.70		
85.0					19.65	22.50	25.50	26.70	28.60	30.10	31.60		

50 Hz

6MJ-45X

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	12.5	15.0	20.0	25.0
10.0	26.64	27.06	27.28	27.20									
15.0	27.03	27.60	28.01	28.19	28.05								
20.0	27.42	28.12	28.72	29.14	29.30	29.13							
25.0	27.79	28.61	29.40	30.06	30.51	30.68	30.49						
30.0	28.13	29.08	30.04	30.92	31.66	32.17	32.38	32.35	32.19	31.93			
35.0	28.46	29.51	30.63	31.74	32.75	33.59	34.18	34.33	34.44	34.42	34.28		
40.0	28.74	29.90	31.17	32.49	33.77	34.94	35.90	36.22	36.59	36.81	36.93		
45.0	28.99	30.23	31.66	33.18	34.72	36.20	37.53	38.01	38.65	39.10	39.46		
50.0	29.18	30.51	32.08	33.79	35.58	37.37	39.07	39.70	40.60	41.28	41.88		
55.0		30.73	32.43	34.33	36.36	38.44	40.49	41.29	42.43	43.34	44.18		
60.0		30.88	32.70	34.78	37.05	39.42	41.81	42.76	44.15	45.27	46.36		
65.0			32.89	35.14	37.63	40.28	43.01	44.11	45.74	47.08	48.39		
70.0			32.99	35.40	38.11	41.03	44.09	45.33	47.20	48.75	50.29		
75.0				35.55	38.47	41.66	45.03	46.42	48.52	50.28	52.04		
80.0				35.60	38.71	42.15	45.84	47.37	49.70	51.66	53.64		
85.0					38.83	42.52	46.51	48.17	50.72	52.89	55.08		

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
10.0	138.50	174.50	220.00	275.00									
15.0	136.00	172.50	218.00	273.00	339.00								
20.0	133.50	170.00	215.00	270.00	336.00	415.00							
25.0	131.00	167.50	212.00	267.00	333.00	411.00	503.00						
30.0	128.00	164.00	209.00	263.00	329.00	406.00	498.00	539.00	605.00	665.00			
35.0	124.50	161.00	205.00	259.00	324.00	401.00	492.00	533.00	599.00	658.00	723.00		
40.0	121.00	157.00	201.00	255.00	319.00	395.00	485.00	526.00	591.00	651.00	715.00		
45.0	117.50	153.00	196.50	249.00	313.00	389.00	478.00	518.00	583.00	642.00	706.00		
50.0	113.50	148.50	191.50	244.00	307.00	381.00	470.00	509.00	574.00	632.00	695.00		
55.0		144.00	186.50	238.00	300.00	373.00	461.00	500.00	563.00	621.00	684.00		
60.0		139.00	180.50	231.00	292.00	364.00	451.00	489.00	552.00	610.00	672.00		
65.0			174.50	224.00	283.00	355.00	440.00	478.00	540.00	597.00	658.00		
70.0			168.00	216.00	274.00	344.00	428.00	465.00	527.00	583.00	644.00		
75.0				208.00	264.00	333.00	415.00	452.00	512.00	568.00	628.00		
80.0				198.50	254.00	321.00	401.00	437.00	497.00	552.00	612.00		
85.0					243.00	308.00	387.00	423.00	482.00	536.00	596.00		

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	223
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
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	321
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
Adapter Kit	For Parallel Operation
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Sound Attenuation	Sound Shell
Digital Modulation	33-100 %
Capacity Control	Capacity Steps 67/33 %
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