



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	41.30	53.50	68.10	85.70					
25.0	38.10	49.80	63.90	80.70	100.50				
30.0	34.90	46.10	59.60	75.70	94.60	116.50	126.50	142.50	156.50
35.0	31.70	42.50	55.40	70.70	88.70	110.00	119.00	134.50	148.00
40.0	28.60	38.90	51.10	65.70	82.90	103.00	112.00	126.50	139.50
45.0	25.60	35.40	47.00	60.80	77.10	96.30	105.00	118.50	131.00
50.0	22.80	32.00	43.00	56.10	71.50	89.60	97.70	111.00	122.50
55.0	20.10	28.90	39.20	51.50	66.00	83.10	90.80	103.00	114.50
60.0	17.75	26.00	35.60	47.10	60.70	76.80	84.10	95.80	106.50
62.0			34.30	45.40	58.70	74.40	81.40	92.90	103.50

50 Hz

D8SJ-500X

R134a

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	15.35	16.70	17.85	18.80					
25.0	16.05	17.65	19.15	20.40	21.40				
30.0	16.65	18.50	20.20	21.80	23.20	24.20	24.50	24.90	25.00
35.0	17.15	19.20	21.20	23.10	24.80	26.20	26.70	27.30	27.70
40.0	17.55	19.85	22.10	24.30	26.30	28.10	28.80	29.60	30.20
45.0	17.90	20.40	22.90	25.40	27.70	29.90	30.70	31.80	32.60
50.0	18.20	20.90	23.70	26.40	29.00	31.50	32.50	33.80	34.80
55.0	18.50	21.40	24.40	27.30	30.30	33.10	34.20	35.70	36.90
60.0	18.80	21.90	25.00	28.20	31.40	34.60	35.80	37.50	38.90
62.0			25.30	28.60	31.90	35.10	36.40	38.20	39.70

Cond °C	Current at 400 V, A								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	45.22	46.60	47.81	48.75					
25.0	45.89	47.49	48.99	50.30	51.31				
30.0	46.47	48.28	50.08	51.76	53.22	54.36	54.71	55.08	55.25
35.0	46.96	48.99	51.09	53.15	55.06	56.74	57.31	58.06	58.56
40.0	47.38	49.64	52.03	54.47	56.84	59.04	59.85	60.97	61.81
45.0	47.74	50.22	52.91	55.72	58.55	61.29	62.33	63.83	65.00
50.0	48.05	50.75	53.74	56.93	60.21	63.48	64.77	66.64	68.15
55.0	48.32	51.24	54.53	58.10	61.84	65.65	67.16	69.42	71.26
60.0	48.55	51.69	55.29	59.24	63.43	67.78	69.53	72.16	74.34
62.0			55.59	59.69	64.07	68.62	70.47	73.25	75.57

Cond °C	Suction Mass Flow, g/s								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	248.00	314.00	393.00	485.00					
25.0	239.00	306.00	385.00	476.00	582.00				
30.0	229.00	297.00	375.00	467.00	572.00	693.00	746.00	830.00	904.00
35.0	219.00	287.00	366.00	457.00	562.00	682.00	735.00	818.00	893.00
40.0	208.00	276.00	355.00	446.00	551.00	671.00	723.00	807.00	881.00
45.0	197.00	266.00	345.00	436.00	540.00	659.00	712.00	795.00	870.00
50.0	186.50	256.00	335.00	425.00	529.00	648.00	700.00	784.00	858.00
55.0	176.00	246.00	325.00	415.00	519.00	638.00	690.00	773.00	848.00
60.0	167.00	237.00	316.00	406.00	510.00	628.00	680.00	764.00	839.00
62.0			313.00	403.00	506.00	625.00	677.00	761.00	835.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	8
Displacement @ 50 Hz, m <sup>3</sup> /h	181
Bore/Stroke, mm	74.7/59.2
Length/Width, mm	835/527
Height, mm	610
Net Weight, kg	324
Gross Weight, kg	345
Suction, inch	3 1/8
Discharge, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	7.6
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	457 x 305 (18)
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1430
Refrigerant's classification	A1

**COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	77
Locked Rotor Current, A	458
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Springs	4
Deep Oil Sump	Mounted
Oil Pressure Switch	OPS2 Sensor

**ACCESSORIES OPTIONAL**

Additional Cooling	70 W Vertical Air Flow Fan
Discharge Temperature Protection	Head PTC sensor
Unloaded start	Available
Capacity Control	Capacity Steps 75/50%
Oil Pressure Switch	OPS2 Electronic Switch
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Crankcase Heater	200 W Internal
Check Valve	For unloaded start operation

**MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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