



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	44.30	57.80	73.90	93.00					
25.0	40.80	53.60	69.10	87.30	109.00				
30.0	37.20	49.50	64.30	81.70	102.00	126.00	136.50	153.50	168.50
35.0	33.70	45.50	59.50	76.10	95.60	118.50	128.50	144.50	159.00
40.0	30.20	41.40	54.70	70.50	89.00	110.50	120.00	135.50	149.50
45.0	26.90	37.50	50.00	64.90	82.50	103.00	112.00	127.00	140.00
50.0	23.70	33.60	45.50	59.40	76.00	95.30	104.00	118.00	130.50
55.0	20.60	29.90	41.00	54.10	69.50	87.80	95.90	109.00	121.00
60.0	17.70	26.40	36.60	48.80	63.20	80.30	87.90	100.50	111.50
62.0			34.90	46.70	60.70	77.30	84.80	96.90	108.00

50 Hz

D8SJ-450X

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	14.45	15.85	16.95	17.70					
25.0	15.20	16.85	18.25	19.40	20.20				
30.0	15.80	17.75	19.45	21.00	22.20	22.90	23.10	23.20	23.20
35.0	16.35	18.50	20.50	22.40	24.00	25.20	25.50	26.00	26.20
40.0	16.75	19.15	21.50	23.70	25.60	27.30	27.80	28.50	29.00
45.0	17.10	19.70	22.30	24.80	27.10	29.20	29.90	30.90	31.60
50.0	17.35	20.20	23.10	25.80	28.50	30.90	31.80	33.10	34.00
55.0	17.55	20.60	23.70	26.80	29.70	32.60	33.60	35.10	36.30
60.0	17.70	20.90	24.20	27.60	30.90	34.00	35.30	37.00	38.40
62.0			24.40	27.90	31.30	34.60	35.90	37.70	39.20

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	40.59	41.65	42.63	43.37					
25.0	41.15	42.59	44.03	45.28	46.17				
30.0	41.65	43.47	45.33	47.07	48.52	49.48	49.69	49.79	49.65
35.0	42.10	44.26	46.53	48.75	50.72	52.28	52.75	53.26	53.47
40.0	42.50	44.98	47.64	50.30	52.79	54.93	55.65	56.54	57.09
45.0	42.83	45.61	48.64	51.73	54.71	57.41	58.37	59.64	60.53
50.0	43.11	46.17	49.54	53.04	56.50	59.72	60.91	62.55	63.76
55.0	43.32	46.65	50.34	54.23	58.14	61.88	63.29	65.28	66.81
60.0	43.48	47.05	51.04	55.30	59.63	63.87	65.49	67.83	69.65
62.0			51.29	55.69	60.19	64.62	66.33	68.79	70.74

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	266.00	340.00	426.00	527.00					
25.0	256.00	330.00	416.00	516.00	631.00				
30.0	244.00	318.00	405.00	504.00	618.00	748.00	805.00	895.00	975.00
35.0	232.00	307.00	393.00	492.00	605.00	735.00	791.00	881.00	960.00
40.0	220.00	294.00	380.00	479.00	592.00	720.00	776.00	866.00	945.00
45.0	207.00	282.00	367.00	465.00	577.00	705.00	761.00	850.00	929.00
50.0	194.00	268.00	353.00	451.00	562.00	689.00	745.00	834.00	913.00
55.0	180.50	255.00	339.00	436.00	547.00	673.00	729.00	817.00	896.00
60.0	167.00	241.00	325.00	421.00	531.00	656.00	711.00	800.00	879.00
62.0			319.00	415.00	524.00	650.00	705.00	793.00	872.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	181
Bore/Stroke, mm	74.7/59.2
Length/Width, mm	835/527
Height, mm	610
Net Weight, kg	345
Gross Weight, kg	366
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	90.8
Locked Rotor Current, A	441
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

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

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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