



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling
- ▨ Limited superheat 20 K
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return
- | Voltage limit ± 5% above -20°C

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
10.0	27.20	37.00	49.20	64.00	81.60				
15.0	24.80	34.20	45.80	59.80	76.40	96.00			
20.0	22.40	31.30	42.30	55.60	71.30	89.70	111.00		
25.0		28.50	38.90	51.40	66.10	83.40	103.50	126.50	
30.0		25.70	35.50	47.20	61.00	77.20	95.90	117.50	142.00
35.0			32.10	43.00	55.90	70.90	88.40	108.50	131.50
40.0			28.70	38.80	50.70	64.70	80.80	99.50	121.00
45.0				34.60	45.60	58.40	73.30	90.50	110.00
50.0				30.50	40.50	52.20	65.80	81.50	99.50
55.0					35.40	45.90	58.20	72.40	88.80

50 Hz

D8SJ-450X

R404A Dew Point

Cond °C	Power, kW								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
10.0	13.50	15.75	17.95	20.10	22.10				
15.0	13.65	16.05	18.50	20.90	23.10	25.20			
20.0	13.75	16.40	19.05	21.70	24.30	26.70	28.80		
25.0		16.65	19.55	22.50	25.40	28.10	30.60	32.80	
30.0		16.85	20.00	23.20	26.40	29.50	32.30	35.00	37.30
35.0			20.40	23.90	27.40	30.80	34.00	37.10	39.80
40.0			20.60	24.40	28.30	32.00	35.60	39.10	42.20
45.0				24.80	29.00	33.10	37.10	40.90	44.50
50.0				25.00	29.50	34.00	38.40	42.70	46.70
55.0					29.90	34.70	39.60	44.30	48.80

Cond °C	Current at 400 V, A								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
10.0	40.11	41.98	44.09	46.29	48.43				
15.0	40.18	42.24	44.62	47.15	49.70	52.11			
20.0	40.26	42.52	45.17	48.05	51.01	53.91	56.59		
25.0		42.79	45.71	48.94	52.33	55.72	58.97	61.92	
30.0		43.00	46.20	49.79	53.61	57.50	61.33	64.92	68.14
35.0			46.61	50.56	54.81	59.22	63.62	67.87	71.82
40.0			46.88	51.20	55.90	60.82	65.81	70.73	75.41
45.0				51.69	56.83	62.28	67.87	73.45	78.88
50.0				51.97	57.57	63.55	69.74	76.00	82.17
55.0					58.08	64.59	71.39	78.33	85.26

Cond °C	Suction Mass Flow, g/s								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
10.0	151.00	206.00	275.00	359.00	459.00				
15.0	143.50	198.50	266.00	349.00	448.00	566.00			
20.0	135.50	190.00	257.00	339.00	437.00	553.00	689.00		
25.0		181.00	248.00	329.00	425.00	539.00	673.00	830.00	
30.0		172.00	238.00	317.00	413.00	525.00	657.00	812.00	992.00
35.0			227.00	306.00	399.00	510.00	641.00	793.00	971.00
40.0			216.00	293.00	385.00	494.00	623.00	774.00	950.00
45.0				279.00	370.00	477.00	604.00	753.00	928.00
50.0				265.00	354.00	460.00	585.00	733.00	907.00
55.0					337.00	442.00	565.00	712.00	886.00

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)
Sound Pressure @ 1m (MT), dBA	76
Sound Power (MT), dBA	87
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	3922
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

<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