



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

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	5.61	7.28	9.38	11.95	15.00	18.60	20.20		
25.0	5.20	6.80	8.80	11.25	14.15	17.60	19.10	21.60	23.80
30.0	4.84	6.36	8.25	10.55	13.35	16.60	18.05	20.40	22.60
35.0	4.49	5.94	7.74	9.92	12.55	15.65	17.05	19.30	21.30
40.0	4.16	5.54	7.24	9.30	11.80	14.70	16.05	18.15	20.10
45.0	3.84	5.14	6.74	8.69	11.00	13.80	15.05	17.05	18.85
50.0	3.50	4.74	6.24	8.06	10.25	12.85	14.05	15.90	17.65
55.0	3.15	4.31	5.72	7.42	9.47	11.90	13.00	14.80	16.40
60.0	2.76	3.85	5.16	6.75	8.66	10.95	11.95	13.60	15.15
65.0	2.31	3.34	4.56	6.04	7.81	9.92	10.85	12.40	13.85

50 Hz		2SA-45							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	2.15	2.28	2.37	2.42	2.43	2.39				
25.0	2.26	2.42	2.55	2.64	2.69	2.70	2.69	2.66	2.62	
30.0	2.35	2.55	2.72	2.86	2.95	3.01	3.01	3.02	3.00	
35.0	2.43	2.67	2.88	3.06	3.20	3.30	3.33	3.36	3.37	
40.0	2.50	2.78	3.03	3.25	3.43	3.58	3.63	3.69	3.73	
45.0	2.54	2.86	3.16	3.42	3.66	3.85	3.92	4.02	4.08	
50.0	2.56	2.93	3.27	3.58	3.86	4.11	4.20	4.32	4.42	
55.0	2.56	2.97	3.36	3.72	4.05	4.35	4.46	4.62	4.74	
60.0	2.54	2.99	3.42	3.83	4.22	4.57	4.70	4.89	5.04	
65.0	2.49	2.99	3.47	3.93	4.36	4.77	4.92	5.15	5.32	
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	5.18	5.33	5.45	5.53	5.55	5.51				
25.0	5.09	5.27	5.43	5.55	5.62	5.62	5.61	5.56	5.49	
30.0	5.11	5.32	5.52	5.69	5.81	5.87	5.88	5.87	5.84	
35.0	5.20	5.45	5.70	5.91	6.09	6.21	6.24	6.27	6.28	
40.0	5.32	5.62	5.91	6.18	6.42	6.61	6.67	6.74	6.78	
45.0	5.45	5.80	6.14	6.47	6.76	7.02	7.11	7.23	7.31	
50.0	5.55	5.94	6.34	6.73	7.09	7.42	7.55	7.71	7.83	
55.0	5.57	6.02	6.48	6.93	7.37	7.78	7.93	8.14	8.31	
60.0	5.49	6.00	6.52	7.04	7.55	8.04	8.23	8.50	8.71	
65.0	5.26	5.83	6.42	7.02	7.61	8.18	8.41	8.73	8.99	
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	31.30	39.90	50.40	63.00	77.90	95.10				
25.0	30.20	38.70	49.20	61.60	76.30	93.20	100.50	112.50	123.50	
30.0	29.30	37.70	48.00	60.30	74.70	91.50	98.80	110.50	121.00	
35.0	28.40	36.80	47.00	59.10	73.30	89.80	97.00	108.50	119.00	
40.0	27.60	36.00	46.00	57.90	71.90	88.10	95.30	106.50	117.00	
45.0	26.80	35.10	45.00	56.70	70.50	86.40	93.40	104.50	115.00	
50.0	25.80	34.00	43.80	55.40	68.90	84.60	91.50	102.50	112.50	
55.0	24.60	32.80	42.40	53.80	67.10	82.50	89.30	100.00	110.00	
60.0	22.90	31.10	40.70	51.80	64.90	80.00	86.70	97.40	107.00	
65.0	20.60	28.80	38.30	49.40	62.20	77.10	83.60	94.20	103.50	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m ³ /h	22.4
Bore/Stroke, mm	61.9/42.8
Length/Width, mm	560/330
Height, mm	395
Net Weight, kg	90
Gross Weight, kg	95
Suction, inch	1 1/8
Discharge, inch	7/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	2.4
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	295 x 279 (14)
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	11.4
Locked Rotor Current, A	68.5
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	70 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
EWL	380-420 V / 3~ / 50 Hz	400		Y	1.00
EWL	220-240 V / 3~ / 50 Hz	230	Y/DELTA	DELTA	1.73
EWM	380-420 V / 3~ / 50 Hz	400	Y/DELTA	DELTA	1.00
TWY	500-550 V / 3~ / 50 Hz	525		DELTA	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
EWN	250-280 V / 3~ / 60 Hz	265	Y/DELTA	DELTA	1.73
EWN	440-480 V / 3~ / 60 Hz	460		Y	1.00
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00