



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 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	15.0	20.0	25.0
20.0	5.40	7.18	9.30	11.80								
25.0	4.95	6.64	8.66	11.05	13.85							
30.0	4.49	6.11	8.03	10.30	13.00	16.15	17.55	19.80				
35.0	4.04	5.58	7.41	9.58	12.15	15.15	16.50	18.65	20.60	22.60		
40.0	3.58	5.05	6.79	8.86	11.30	14.15	15.45	17.50	19.35	21.30	25.70	30.70
45.0	3.12	4.53	6.19	8.15	10.45	13.20	14.40	16.35	18.15	20.00	24.30	29.00
50.0	2.67	4.02	5.60	7.46	9.65	12.25	13.40	15.25	16.95	18.75	22.80	27.40
55.0	2.22	3.52	5.02	6.78	8.85	11.30	12.35	14.15	15.75	17.45	21.30	25.70
60.0		3.03	4.46	6.12	8.06	10.35	11.35	13.05	14.55	16.15	19.80	24.00
65.0			3.92	5.48	7.30	9.43	10.40	11.95	13.35	14.90	18.30	22.20
70.0			3.39	4.86	6.55	8.53	9.41	10.85	12.15	13.60	16.80	20.50
75.0				4.26	5.82	7.64	8.46	9.79	11.00	12.30	15.25	18.75
80.0				3.68	5.12	6.78	7.52	8.73	9.83	11.05	13.75	16.95

Cond °C	Power, kW											
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
20.0	2.20	2.31	2.38	2.40								
25.0	2.19	2.35	2.48	2.55	2.58							
30.0	2.17	2.39	2.57	2.71	2.79	2.81	2.80	2.76				
35.0	2.16	2.42	2.65	2.85	2.99	3.08	3.09	3.09	3.07	3.03		
40.0	2.14	2.45	2.73	2.98	3.19	3.34	3.38	3.42	3.43	3.42	3.34	3.17
45.0	2.13	2.47	2.80	3.10	3.37	3.58	3.65	3.73	3.78	3.80	3.80	3.70
50.0	2.11	2.49	2.86	3.22	3.54	3.81	3.90	4.02	4.10	4.17	4.23	4.21
55.0	2.10	2.51	2.92	3.32	3.69	4.02	4.14	4.30	4.41	4.51	4.65	4.70
60.0		2.52	2.97	3.41	3.83	4.22	4.36	4.56	4.70	4.83	5.04	5.17
65.0			3.00	3.49	3.95	4.39	4.56	4.79	4.97	5.14	5.42	5.62
70.0			3.03	3.55	4.06	4.55	4.74	5.01	5.22	5.42	5.77	6.04
75.0				3.60	4.15	4.69	4.90	5.20	5.45	5.68	6.09	6.44
80.0				3.63	4.22	4.81	5.04	5.37	5.65	5.91	6.39	6.82

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	15.0	20.0	25.0
20.0	5.96	6.07	6.14	6.16								
25.0	5.96	6.13	6.27	6.36	6.38							
30.0	5.95	6.18	6.38	6.54	6.64	6.67	6.65	6.59				
35.0	5.95	6.22	6.48	6.72	6.89	7.00	7.02	7.01	6.98	6.91		
40.0	5.94	6.26	6.58	6.88	7.13	7.32	7.37	7.42	7.43	7.42	7.29	7.02
45.0	5.93	6.29	6.67	7.03	7.36	7.63	7.71	7.82	7.88	7.91	7.89	7.74
50.0	5.92	6.32	6.74	7.17	7.57	7.92	8.04	8.20	8.31	8.40	8.48	8.45
55.0	5.90	6.34	6.81	7.29	7.76	8.19	8.35	8.57	8.73	8.86	9.06	9.14
60.0		6.35	6.87	7.40	7.94	8.45	8.65	8.92	9.13	9.32	9.63	9.83
65.0			6.91	7.50	8.10	8.70	8.92	9.25	9.51	9.75	10.18	10.51
70.0			6.94	7.58	8.25	8.92	9.18	9.57	9.88	10.17	10.72	11.18
75.0				7.64	8.37	9.12	9.42	9.86	10.22	10.58	11.24	11.83
80.0				7.68	8.48	9.30	9.64	10.14	10.55	10.96	11.74	12.48

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	15.0	20.0	25.0
20.0	32.40	42.20	53.70	66.90								
25.0	31.00	40.80	52.10	65.30	80.40							
30.0	29.50	39.30	50.60	63.60	78.70	95.90	103.50	115.50				
35.0	27.90	37.60	48.90	61.90	76.90	94.10	101.50	113.50	124.00	135.50		
40.0	26.10	35.90	47.20	60.20	75.10	92.20	99.70	111.50	122.50	133.50	158.00	185.00
45.0	24.10	34.10	45.40	58.40	73.30	90.40	97.80	110.00	120.50	131.50	156.50	183.50
50.0	21.90	32.10	43.50	56.50	71.40	88.50	95.90	108.00	118.50	130.00	154.50	182.00
55.0	19.45	30.00	41.60	54.70	69.60	86.50	94.00	106.00	116.50	128.00	152.50	180.00
60.0		27.70	39.60	52.80	67.70	84.60	92.00	104.00	114.50	126.00	150.50	178.00
65.0			37.50	50.90	65.80	82.70	90.10	102.00	112.50	123.50	148.50	176.00
70.0			35.40	49.00	64.00	80.90	88.20	100.00	110.50	121.50	146.50	174.00
75.0				47.20	62.30	79.20	86.50	98.20	108.50	120.00	144.50	172.50
80.0				45.60	60.90	77.80	85.10	96.70	107.00	118.00	142.50	170.50

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 50 Hz, m <sup>3</sup> /h	23.7
Bore/Stroke, mm	63.6/42.9
Length/Width, mm	590/330
Height, mm	470
Net Weight, kg	136
Gross Weight, kg	145
Rotalock Discharge, inch	1 1/8
Suction, inch	1 3/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	2.3
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	295 x 279 (14)
Sound Pressure @ 1m, dBA	66
Sound Power, dBA	77
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	13.8
Locked Rotor Current, A	82
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

**ACCESSORIES OPTIONAL**

Crankcase Heater	70 W Internal
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3
Additional Cooling	70 W Vertical Air Flow Fan
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted

**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	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
EWY	500-550 V / 3~ / 50 Hz	525	Y/DELTA	DELTA	0.76
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
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
EWD	440-480 V / 3~ / 60 Hz	460	Y/DELTA	DELTA	1.00
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