



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	6.50	8.58	11.05	14.00								
25.0	6.01	7.98	10.35	13.15	16.40							
30.0	5.50	7.38	9.62	12.30	15.40	19.10	20.70	23.30				
35.0	5.00	6.78	8.91	11.45	14.45	17.95	19.50	22.00	24.30	26.70		
40.0	4.48	6.19	8.21	10.60	13.45	16.80	18.25	20.70	22.80	25.10	30.30	36.00
45.0	3.96	5.59	7.51	9.78	12.45	15.65	17.05	19.35	21.40	23.60	28.50	34.10
50.0	3.44	5.01	6.83	8.98	11.50	14.50	15.85	18.00	19.95	22.10	26.80	32.10
55.0	2.91	4.42	6.15	8.18	10.55	13.40	14.65	16.70	18.55	20.50	25.00	30.10
60.0		3.84	5.49	7.40	9.64	12.30	13.45	15.40	17.15	19.00	23.20	28.00
65.0			4.85	6.64	8.73	11.20	12.30	14.10	15.70	17.50	21.40	26.00
70.0			4.22	5.90	7.84	10.10	11.15	12.80	14.30	15.95	19.65	23.90
75.0				5.18	6.97	9.06	10.00	11.50	12.90	14.40	17.85	21.80
80.0				4.48	6.12	8.02	8.87	10.25	11.50	12.90	16.00	19.70

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	2.60	2.70	2.76	2.75								
25.0	2.61	2.77	2.90	2.96	2.97							
30.0	2.61	2.84	3.03	3.17	3.24	3.25	3.22	3.16				
35.0	2.61	2.90	3.15	3.36	3.51	3.59	3.60	3.59	3.56	3.50		
40.0	2.62	2.95	3.27	3.54	3.76	3.92	3.96	4.00	4.01	3.99	3.88	3.66
45.0	2.62	3.01	3.37	3.71	4.00	4.23	4.31	4.39	4.44	4.47	4.45	4.32
50.0	2.63	3.05	3.47	3.87	4.22	4.53	4.63	4.76	4.85	4.92	4.99	4.95
55.0	2.63	3.09	3.56	4.01	4.43	4.80	4.93	5.11	5.24	5.35	5.50	5.55
60.0		3.13	3.63	4.14	4.62	5.05	5.22	5.44	5.61	5.76	5.99	6.13
65.0			3.70	4.25	4.78	5.29	5.47	5.74	5.95	6.13	6.45	6.68
70.0			3.75	4.34	4.93	5.49	5.71	6.01	6.26	6.48	6.88	7.20
75.0				4.42	5.05	5.67	5.91	6.26	6.54	6.80	7.28	7.69
80.0				4.48	5.15	5.83	6.09	6.48	6.79	7.09	7.65	8.14

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	6.45	6.52	6.54	6.51								
25.0	6.46	6.61	6.72	6.79	6.77							
30.0	6.47	6.69	6.90	7.06	7.15	7.14	7.11	7.02				
35.0	6.47	6.77	7.06	7.31	7.51	7.61	7.62	7.60	7.55	7.46		
40.0	6.48	6.84	7.21	7.55	7.85	8.06	8.12	8.17	8.18	8.15	7.98	7.63
45.0	6.48	6.90	7.35	7.78	8.17	8.49	8.59	8.72	8.79	8.82	8.78	8.57
50.0	6.48	6.96	7.47	7.99	8.47	8.90	9.05	9.24	9.37	9.47	9.57	9.50
55.0	6.48	7.01	7.59	8.18	8.76	9.29	9.48	9.74	9.93	10.10	10.33	10.41
60.0		7.05	7.69	8.35	9.02	9.65	9.89	10.22	10.47	10.70	11.07	11.29
65.0			7.77	8.50	9.25	9.99	10.27	10.67	10.98	11.27	11.78	12.16
70.0			7.83	8.64	9.47	10.30	10.62	11.09	11.47	11.82	12.47	12.99
75.0				8.74	9.65	10.58	10.94	11.48	11.92	12.34	13.12	13.81
80.0				8.83	9.81	10.82	11.23	11.84	12.34	12.82	13.75	14.59

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	39.00	50.40	63.80	79.30								
25.0	37.70	49.00	62.20	77.60	95.20							
30.0	36.20	47.40	60.60	75.80	93.30	113.50	122.00	136.00				
35.0	34.50	45.80	58.80	73.90	91.40	111.50	120.00	134.00	146.50	159.50		
40.0	32.60	44.00	57.00	72.00	89.40	109.00	118.00	132.00	144.00	157.50	186.00	217.00
45.0	30.50	42.00	55.10	70.10	87.30	107.00	116.00	129.50	142.00	155.00	183.50	215.00
50.0	28.20	39.90	53.10	68.10	85.20	105.00	113.50	127.50	139.50	153.00	181.50	213.00
55.0	25.50	37.60	51.00	66.00	83.10	102.50	111.50	125.00	137.50	150.50	179.00	211.00
60.0		35.10	48.80	63.90	81.00	100.50	109.00	122.50	135.00	148.00	176.50	209.00
65.0			46.40	61.70	78.80	98.20	106.50	120.50	132.50	145.50	174.00	206.00
70.0			44.00	59.60	76.70	96.00	104.50	118.00	130.00	143.00	171.50	203.00
75.0				57.40	74.70	93.90	102.00	115.50	127.50	140.50	168.50	201.00
80.0				55.40	72.90	92.10	100.50	113.50	125.50	138.00	166.00	198.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 50 Hz, m <sup>3</sup> /h	28.0
Bore/Stroke, mm	66.7/46.1
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	16.1
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
Check Valve	For unloaded start operation
Adapter Kit	For Parallel 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