



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	9.62	12.50	15.95	19.95					
25.0	8.88	11.65	14.90	18.75	23.30				
30.0	8.16	10.75	13.90	17.55	21.90	26.90	29.20	32.80	36.00
35.0	7.46	9.94	12.90	16.40	20.50	25.30	27.50	30.90	34.00
40.0	6.77	9.12	11.90	15.20	19.15	23.70	25.70	29.00	32.00
45.0	6.11	8.33	10.95	14.10	17.75	22.10	24.00	27.10	29.90
50.0	5.48	7.57	10.05	12.95	16.40	20.50	22.30	25.20	27.80
55.0	4.88	6.84	9.14	11.85	15.05	18.85	20.50	23.30	25.80
60.0	4.31	6.15	8.27	10.75	13.70	17.20	18.80	21.30	23.60
62.0			7.93	10.35	13.20	16.55	18.10	20.50	22.80

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
20.0	3.06	3.23	3.33	3.34					
25.0	3.20	3.45	3.64	3.75	3.76				
30.0	3.35	3.67	3.94	4.13	4.24	4.25	4.22	4.15	4.05
35.0	3.48	3.87	4.21	4.49	4.70	4.80	4.82	4.80	4.76
40.0	3.61	4.06	4.47	4.83	5.12	5.32	5.37	5.42	5.43
45.0	3.73	4.23	4.71	5.14	5.51	5.80	5.89	6.00	6.06
50.0	3.85	4.39	4.93	5.43	5.87	6.25	6.38	6.54	6.64
55.0	3.96	4.54	5.12	5.68	6.20	6.66	6.82	7.03	7.19
60.0	4.06	4.66	5.29	5.90	6.49	7.02	7.21	7.48	7.68
62.0			5.34	5.98	6.59	7.15	7.36	7.64	7.86

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	6.76	6.94	7.05	7.06					
25.0	6.94	7.23	7.46	7.60	7.61				
30.0	7.11	7.50	7.85	8.11	8.26	8.27	8.23	8.12	7.98
35.0	7.28	7.76	8.22	8.60	8.88	9.03	9.05	9.03	8.97
40.0	7.44	8.01	8.56	9.06	9.47	9.76	9.84	9.91	9.92
45.0	7.59	8.24	8.88	9.49	10.02	10.45	10.59	10.75	10.84
50.0	7.74	8.45	9.18	9.89	10.54	11.10	11.30	11.54	11.71
55.0	7.87	8.65	9.46	10.26	11.03	11.72	11.96	12.30	12.54
60.0	8.00	8.82	9.70	10.59	11.47	12.28	12.58	13.00	13.32
62.0			9.79	10.72	11.63	12.50	12.82	13.27	13.62

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	57.70	73.60	91.90	113.00					
25.0	55.70	71.40	89.70	111.00	135.00				
30.0	53.60	69.30	87.40	108.50	132.50	160.00	172.00	191.00	208.00
35.0	51.50	67.10	85.10	106.00	130.00	157.00	169.00	188.00	205.00
40.0	49.30	64.80	82.80	103.50	127.00	154.50	166.00	185.00	202.00
45.0	47.10	62.60	80.40	101.00	124.50	151.00	163.00	182.00	198.50
50.0	44.90	60.40	78.00	98.20	121.50	148.00	159.50	178.00	195.00
55.0	42.70	58.20	75.70	95.60	118.50	144.50	156.00	174.50	190.50
60.0	40.60	56.20	73.40	92.90	115.00	141.00	152.00	170.00	186.00
62.0			72.50	91.80	114.00	139.00	150.50	168.00	184.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	3
Displacement @ 50 Hz, m <sup>3</sup> /h	38.0
Bore/Stroke, mm	60.4/50.8
Length/Width, mm	655/370
Height, mm	480
Net Weight, kg	150
Gross Weight, kg	161
Rotalock Discharge, inch	1 1/8
Suction, inch	1 3/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.7
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	381 x 305 (18)
Sound Pressure @ 1m, dBA	70
Sound Power, dBA	81
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	18.3
Locked Rotor Current, A	82
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

**ACCESSORIES OPTIONAL**

Check Valve	For unloaded start operation
Capacity Control	Moduload
Crankcase Heater	70 W Internal
Enclosure Class	IP 56
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**

<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
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