



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	8.34	11.10	14.60	18.90	24.00	30.10	37.20		
15.0	7.86	10.55	13.90	18.00	22.90	28.70	35.40	43.20	
20.0		9.96	13.15	17.05	21.70	27.20	33.60	41.00	49.50
25.0		9.36	12.40	16.15	20.60	25.80	31.80	38.80	46.80
30.0			11.65	15.20	19.35	24.30	30.00	36.60	44.20
35.0			10.85	14.20	18.15	22.80	28.20	34.40	41.50
40.0				13.20	16.90	21.20	26.30	32.10	38.80
45.0				12.15	15.65	19.70	24.40	29.80	36.10
50.0					14.35	18.10	22.50	27.50	33.30
55.0						16.50	20.50	25.20	30.60
60.0						14.85	18.55	22.80	
62.0						14.20	17.75	21.90	

Cond °C	Power, kW								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	3.65	4.17	4.65	5.05	5.36	5.53	5.52		
15.0	3.80	4.37	4.92	5.41	5.82	6.10	6.24	6.19	
20.0		4.57	5.19	5.76	6.27	6.67	6.94	7.05	6.95
25.0		4.76	5.45	6.11	6.71	7.24	7.64	7.90	7.97
30.0			5.69	6.43	7.14	7.78	8.32	8.73	8.97
35.0			5.91	6.74	7.55	8.31	8.98	9.53	9.94
40.0				7.02	7.93	8.80	9.61	10.30	10.90
45.0				7.27	8.28	9.27	10.20	11.05	11.80
50.0					8.59	9.69	10.75	11.75	12.65
55.0						10.05	11.25	12.45	13.50
60.0						10.40	11.75	13.05	
62.0						10.50	11.90	13.25	

Cond °C	Current at 400 V, A								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	8.99	9.60	10.18	10.68	11.05	11.25	11.23		
15.0	9.17	9.83	10.48	11.09	11.60	11.96	12.13	12.04	
20.0		10.06	10.80	11.52	12.17	12.69	13.05	13.18	13.05
25.0		10.29	11.12	11.95	12.74	13.43	13.98	14.34	14.45
30.0			11.42	12.37	13.30	14.17	14.92	15.50	15.87
35.0			11.71	12.78	13.85	14.89	15.84	16.65	17.28
40.0				13.15	14.38	15.59	16.75	17.79	18.68
45.0				13.49	14.86	16.26	17.62	18.90	20.05
50.0					15.31	16.88	18.46	19.97	21.39
55.0						17.45	19.24	21.00	22.68
60.0						17.96	19.96	21.96	
62.0						18.14	20.23	22.33	

Cond °C	Suction Mass Flow, g/s								
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0
10.0	38.80	51.90	68.30	88.70	113.50	142.50	177.00		
15.0	37.90	50.90	67.30	87.40	111.50	140.50	174.50	214.00	
20.0		49.90	66.20	86.00	110.00	138.50	172.00	211.00	257.00
25.0		48.70	64.90	84.50	108.00	136.00	169.50	208.00	253.00
30.0			63.40	82.90	106.00	134.00	166.50	204.00	249.00
35.0			61.80	81.00	104.00	131.00	163.50	201.00	245.00
40.0				78.90	101.50	128.50	160.00	197.00	240.00
45.0				76.60	98.90	125.50	156.50	193.00	236.00
50.0					95.90	122.00	152.50	188.50	231.00
55.0						118.00	148.50	183.50	225.00
60.0						114.00	144.00	179.00	
62.0						112.50	142.00	176.50	

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	3
Displacement @ 50 Hz, m³/h	49.9
Bore/Stroke, mm	61.9/63.5
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	162
Gross Weight, kg	173
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 (MT), dBA	70
Sound Power (MT), dBA	81
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	2107
Refrigerant's classification	A1

**COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	24.4
Locked Rotor Current, A	121
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

**ACCESSORIES OPTIONAL**

Unloaded start	Available
Crankcase Heater	70 W Internal
Enclosure Class	IP 56
Check Valve	For unloaded start operation
Capacity Control	Moduload
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
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	YYY	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	YYY	Y	1.73
AWY	500-550 V / 3~ / 50 Hz	525	YYY	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	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00