



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 0 °C Suction Gas Return
- 0 °C Suction Gas Return with add cooling
- Limited superheat 20 K
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return
- | Voltage limit ± 5% above -20°C

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	
10.0	11.35	15.05	19.70	25.40	32.20					
15.0	10.25	13.90	18.35	23.80	30.20	37.90				
20.0	9.23	12.75	17.00	22.20	28.30	35.60	44.10			
25.0		11.65	15.70	20.60	26.40	33.20	41.20	50.50		
30.0		10.55	14.45	19.00	24.50	30.80	38.30	47.00	57.00	
35.0			13.15	17.45	22.50	28.50	35.40	43.50	52.80	
40.0			11.90	15.90	20.60	26.10	32.50	40.00	48.60	
45.0				14.35	18.65	23.70	29.50	36.40	44.30	
50.0				12.80	16.65	21.20	26.50	32.80	40.00	
55.0					14.70	18.75	23.50	29.10	35.60	

Cond °C	Power, kW								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
10.0	5.37	6.23	7.06	7.85	8.57				
15.0	5.61	6.57	7.51	8.42	9.28	10.05			
20.0	5.76	6.82	7.89	8.93	9.92	10.85	11.65		
25.0		7.00	8.19	9.35	10.50	11.55	12.55	13.45	
30.0		7.10	8.41	9.71	11.00	12.20	13.35	14.45	15.40
35.0			8.55	9.99	11.40	12.80	14.10	15.35	16.50
40.0			8.62	10.20	11.75	13.30	14.80	16.25	17.55
45.0				10.35	12.05	13.75	15.45	17.05	18.55
50.0				10.40	12.25	14.15	16.00	17.80	19.50
55.0					12.40	14.45	16.50	18.45	20.40

Cond °C	Current at 400 V, A								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
10.0	13.54	14.41	15.32	16.23	17.08				
15.0	13.78	14.77	15.83	16.91	17.97	18.94			
20.0	13.93	15.05	16.26	17.52	18.78	19.98	21.08		
25.0		15.25	16.61	18.05	19.51	20.95	22.31	23.54	
30.0		15.36	16.88	18.49	20.17	21.84	23.46	24.98	26.34
35.0			17.06	18.86	20.74	22.64	24.53	26.34	28.02
40.0			17.15	19.13	21.22	23.36	25.51	27.61	29.61
45.0				19.32	21.62	24.00	26.41	28.80	31.13
50.0				19.41	21.92	24.54	27.22	29.91	32.55
55.0					22.14	25.00	27.94	30.92	33.89

Cond °C	Suction Mass Flow, g/s								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
10.0	62.90	83.90	110.00	142.00	181.00				
15.0	59.30	80.50	107.00	138.50	177.50	223.00			
20.0	55.80	77.30	103.50	135.50	173.50	219.00	273.00		
25.0		73.90	100.00	131.50	169.50	215.00	268.00	331.00	
30.0		70.60	96.70	128.00	165.50	210.00	263.00	325.00	398.00
35.0			93.20	124.00	161.00	205.00	257.00	318.00	390.00
40.0			89.50	120.00	156.50	199.00	250.00	311.00	382.00
45.0				115.50	151.00	193.50	243.00	303.00	374.00
50.0				111.00	146.00	187.00	236.00	295.00	365.00
55.0					140.00	180.50	228.00	286.00	355.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	4
Displacement @ 50 Hz, m <sup>3</sup> /h	70.8
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	680/490
Height, mm	495
Net Weight, kg	186
Gross Weight, kg	202
Rotalock Discharge, inch	1 1/8
Suction, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	3.3
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	381 x 305 (18)
Sound Pressure @ 1m (LT), dBA	74
Sound Power (LT), dBA	85
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	73
Sound Power (MT), dBA	84
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	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	35.6
Locked Rotor Current, A	156
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Springs	4
Oil Pressure Switch	OPS2 Sensor

**ACCESSORIES OPTIONAL**

Capacity Control	Capacity Steps 50%
Check Valve	For unloaded start operation
Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	100 W Internal
Discharge Temperature Protection	Head PTC sensor
Unloaded start	Available
Deep Oil Sump	Mounted
Enclosure Class	IP 56
Adapter Kit	For Parallel Operation
Oil Pressure Switch	OPS2 Electronic Switch
Oil Control System	ALCO Trax-Oil OM3

**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	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
AWC	208-230 V / 3~ / 60 Hz	230	YYY	Y	2.19
AWX	380 V / 3~ / 60 Hz	380	YYY	Y	1.20
AWD	440-480 V / 3~ / 60 Hz	460	YYY	Y	1.00