



Minimum Evaporating Temp. With:

█ 20 °C Suction Gas Return Liquid injection

█ Maximum Evaporating Temperature | Voltage limit -5% above -4°C

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	5.0	7.0
4.0	9.55	12.00	15.00	18.70	23.10	28.30	34.40				
5.0	9.51	11.95	14.95	18.65	23.00	28.20	34.30				
10.0	9.16	11.50	14.40	17.95	22.10	27.10	32.90	39.50			
15.0	8.78	11.05	13.85	17.20	21.20	25.90	31.40	37.70	45.00		
20.0	8.39	10.60	13.25	16.40	20.20	24.70	29.90	35.90	42.70	50.50	
25.0	7.98	10.10	12.60	15.60	19.15	23.40	28.30	33.90	40.40	47.80	51.00
30.0	7.56	9.55	11.95	14.75	18.10	22.00	26.60	31.90	38.00	45.00	48.00
35.0	7.12	9.00	11.25	13.85	17.00	20.60	24.90	29.90	35.60	42.10	44.90
40.0	6.66	8.43	10.50	12.95	15.80	19.20	23.10	27.70	33.00	39.10	41.80
45.0	6.18	7.83	9.74	12.00	14.60	17.70	21.30	25.50	30.40	36.10	38.50
50.0	5.68	7.21	8.95	10.95	13.35	16.15	19.45	23.30	27.80	32.90	35.20
54.4	5.23	6.64	8.22	10.05	12.20	14.75	17.75	21.20			

Cond °C	Power, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
4.0	3.36	3.73	4.11	4.49	4.87	5.25	5.63				
5.0	3.38	3.76	4.14	4.52	4.90	5.27	5.65				
10.0	3.65	4.03	4.41	4.79	5.16	5.54	5.92	6.30			
15.0	3.95	4.33	4.71	5.09	5.48	5.86	6.24	6.62	7.01		
20.0	4.27	4.66	5.05	5.44	5.83	6.22	6.61	7.00	7.39	7.78	
25.0	4.63	5.04	5.44	5.84	6.24	6.64	7.04	7.44	7.84	8.24	8.40
30.0	5.03	5.44	5.86	6.27	6.69	7.10	7.52	7.94	8.35	8.77	8.93
35.0	5.45	5.89	6.32	6.75	7.19	7.62	8.06	8.49	8.92	9.36	9.53
40.0	5.91	6.37	6.82	7.28	7.74	8.19	8.65	9.10	9.56	10.00	10.20
45.0	6.41	6.89	7.37	7.85	8.33	8.81	9.30	9.78	10.25	10.75	10.95
50.0	6.94	7.45	7.96	8.47	8.98	9.49	10.00	10.50	11.00	11.55	11.75
54.4	7.44	7.98	8.52	9.06	9.60	10.15	10.65	11.20			

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	5.0	7.0
4.0	10.30	10.80	11.32	11.85	12.39	12.95	13.52				
5.0	10.33	10.84	11.36	11.89	12.43	12.99	13.56				
10.0	10.70	11.21	11.73	12.27	12.82	13.39	13.96	14.55			
15.0	11.11	11.63	12.17	12.72	13.28	13.86	14.45	15.05	15.67		
20.0	11.56	12.10	12.66	13.23	13.82	14.42	15.04	15.66	16.30	16.95	
25.0	12.06	12.63	13.22	13.83	14.44	15.08	15.72	16.38	17.05	17.74	18.01
30.0	12.62	13.23	13.86	14.50	15.16	15.83	16.52	17.22	17.93	18.65	18.95
35.0	13.25	13.90	14.57	15.26	15.97	16.69	17.42	18.17	18.93	19.71	20.02
40.0	13.94	14.65	15.37	16.12	16.88	17.65	18.44	19.25	20.07	20.90	21.24
45.0	14.71	15.48	16.27	17.08	17.90	18.74	19.59	20.46	21.35	22.25	22.61
50.0	15.57	16.41	17.26	18.14	19.04	19.95	20.88	21.82	22.78	23.75	24.15
54.4	16.39	17.30	18.23	19.17	20.14	21.12	22.12	23.13			

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	5.0	7.0
4.0	50.90	64.10	80.50	100.50	125.00	154.00	188.50				
5.0	50.90	64.10	80.60	100.50	125.00	154.00	188.50				
10.0	51.00	64.20	80.70	101.00	125.00	154.00	188.00	228.00			
15.0	50.90	64.30	80.80	101.00	125.00	153.50	187.50	227.00	274.00		
20.0	50.90	64.30	80.70	100.50	124.50	153.00	186.50	226.00	272.00	326.00	
25.0	50.70	64.20	80.60	100.50	124.00	152.00	185.50	225.00	271.00	324.00	348.00
30.0	50.50	64.00	80.30	99.80	123.00	151.00	184.00	223.00	268.00	322.00	346.00
35.0	50.20	63.70	79.80	99.10	122.00	149.50	182.00	221.00	266.00	320.00	343.00
40.0	49.80	63.30	79.30	98.20	121.00	148.00	180.00	218.00	263.00	317.00	341.00
45.0	49.40	62.80	78.60	97.20	119.50	146.00	177.50	215.00	260.00	313.00	338.00
50.0	48.90	62.30	77.80	96.00	117.50	143.50	175.00	212.00	257.00	310.00	334.00
54.4	48.50	61.80	77.00	94.90	116.00	141.50	172.50	209.00			

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	35.3
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	63.1
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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	190 x 190 (0)
Sound Pressure @ 1m (LT), dBA	69
Sound Power (LT), dBA	80
Sound Power with Sound Shell (LT), dBA	68
Sound Conditions (LT, Temperatures:	-35 / 40 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	II
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	29
Locked Rotor Current, A	118
Winding Resistance, ohm	1.24
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	66 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell
Rotalock valves	suction and discharge

### **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>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFC	200-240 V / 3~ / 50 Hz	200		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TFC	208-230 V / 3~ / 60 Hz	230		Y	2.18