



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature
- | Voltage limit -5% above -7°C

Suction Return Temperature 18.3°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	7.06	8.58	10.45	12.55	14.95	17.55	20.40				
5.0	7.05	8.58	10.45	12.55	14.95	17.55	20.30				
10.0	6.99	8.52	10.35	12.45	14.80	17.35	20.10	22.90			
15.0	6.91	8.44	10.25	12.35	14.65	17.15	19.75	22.50	25.30		
20.0	6.81	8.33	10.15	12.15	14.40	16.85	19.40	22.10	24.80	27.50	
25.0	6.69	8.19	9.97	11.95	14.15	16.50	19.00	21.50	24.10	26.80	27.80
30.0	6.55	8.04	9.78	11.75	13.85	16.15	18.50	21.00	23.40	25.90	26.90
35.0	6.40	7.87	9.57	11.45	13.55	15.70	18.00	20.30	22.70	25.00	25.90
40.0	6.24	7.67	9.33	11.15	13.15	15.25	17.45	19.65	21.90	24.00	24.90
45.0		7.46	9.06	10.85	12.75	14.75	16.80	18.90	21.00	23.00	
50.0		7.23	8.78	10.50	12.30	14.20	16.15	18.10	20.10		
54.4			8.51	10.15	11.90	13.70	15.55	17.40			

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	2.21	2.43	2.64	2.86	3.08	3.29	3.51				
5.0	2.24	2.45	2.67	2.88	3.10	3.31	3.53				
10.0	2.50	2.70	2.91	3.11	3.31	3.51	3.71	3.91			
15.0	2.78	2.98	3.17	3.37	3.57	3.76	3.96	4.16	4.35		
20.0	3.07	3.27	3.48	3.68	3.88	4.08	4.28	4.48	4.68	4.88	
25.0	3.38	3.60	3.81	4.03	4.24	4.46	4.67	4.88	5.10	5.31	5.40
30.0	3.71	3.95	4.19	4.43	4.66	4.90	5.14	5.37	5.61	5.85	5.94
35.0	4.07	4.34	4.61	4.87	5.14	5.41	5.68	5.95	6.22	6.49	6.59
40.0	4.45	4.76	5.07	5.38	5.69	6.00	6.30	6.61	6.92	7.23	7.36
45.0		5.21	5.57	5.93	6.29	6.65	7.01	7.37	7.73	8.09	
50.0		5.71	6.13	6.55	6.97	7.39	7.80	8.22	8.64		
54.4			6.66	7.14	7.62	8.10	8.58	9.05			

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	5.70	5.90	6.11	6.32	6.54	6.77	7.00				
5.0	5.73	5.92	6.13	6.34	6.56	6.79	7.02				
10.0	5.95	6.14	6.34	6.55	6.77	6.99	7.21	7.44			
15.0	6.21	6.41	6.62	6.83	7.05	7.28	7.51	7.74	7.98		
20.0	6.51	6.73	6.95	7.18	7.42	7.66	7.90	8.15	8.41	8.67	
25.0	6.84	7.09	7.35	7.60	7.87	8.13	8.41	8.68	8.96	9.24	9.36
30.0	7.22	7.51	7.80	8.10	8.40	8.71	9.02	9.33	9.64	9.96	10.09
35.0	7.65	7.99	8.33	8.68	9.03	9.38	9.74	10.09	10.46	10.82	10.97
40.0	8.12	8.52	8.93	9.33	9.74	10.16	10.57	10.99	11.40	11.83	11.99
45.0		9.11	9.59	10.07	10.55	11.04	11.52	12.01	12.49	12.98	
50.0		9.77	10.34	10.90	11.46	12.03	12.59	13.15	13.72		
54.4			11.05	11.70	12.34	12.99	13.63	14.28			

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	31.70	40.10	50.00	61.70	75.80	92.60	112.50				
5.0	31.70	40.10	50.00	61.70	75.80	92.60	112.50				
10.0	31.60	40.10	50.00	61.80	75.90	92.70	112.50	136.00			
15.0	31.50	40.00	49.90	61.70	75.80	92.60	112.50	136.00	163.50		
20.0	31.30	39.80	49.80	61.60	75.60	92.40	112.50	136.00	163.50	195.50	
25.0	31.10	39.60	49.50	61.30	75.40	92.10	112.00	135.50	163.00	195.00	209.00
30.0	30.90	39.30	49.20	61.00	75.00	91.70	111.50	135.00	162.50	194.00	208.00
35.0	30.60	39.00	48.80	60.50	74.50	91.10	111.00	134.00	161.50	193.50	207.00
40.0	30.20	38.60	48.40	60.00	73.90	90.40	110.00	133.50	160.50	192.00	206.00
45.0		38.10	47.80	59.30	73.10	89.60	109.00	132.00	159.50	191.00	
50.0		37.60	47.20	58.60	72.30	88.60	108.00	131.00	158.00		
54.4			46.60	57.90	71.40	87.60	107.00	130.00			

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	21.4
Length/Width, mm	246/257
Height, mm	452
Net Weight, kg	39.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
Rotalock Injection, inch	1
Oil Quantity, l	1.89
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 (19)
Sound Pressure @ 1m (LT), dBA	70
Sound Power (LT), dBA	81
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	5.70
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	16
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Rotalock valves	suction and discharge

**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>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09