



Minimum Evaporating Temp. With:

— 20 °C Suction Gas Return Liquid injection

— Maximum Evaporating Temperature | Voltage limit -5% above -4°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	9.47	12.00	15.05	18.70	23.00	28.10	34.00				
5.0	9.42	11.95	14.95	18.60	22.90	28.00	33.90				
10.0	9.03	11.45	14.35	17.80	21.90	26.70	32.30	38.70			
15.0	8.66	11.00	13.75	17.00	20.90	25.40	30.70	36.80	43.80		
20.0	8.29	10.55	13.15	16.25	19.85	24.10	29.10	34.90	41.50	49.10	
25.0	7.93	10.05	12.55	15.45	18.85	22.80	27.50	32.90	39.10	46.30	49.40
30.0	7.54	9.58	11.90	14.65	17.80	21.50	25.90	30.90	36.80	43.50	46.40
35.0	7.13	9.07	11.25	13.80	16.75	20.20	24.20	28.90	34.40	40.60	43.40
40.0	6.68	8.51	10.55	12.90	15.65	18.80	22.50	26.90	31.90	37.70	40.20
45.0	6.18	7.91	9.81	11.95	14.45	17.35	20.80	24.70	29.30	34.70	37.10
50.0	5.61	7.24	9.00	10.95	13.20	15.85	18.90	22.50	26.70	31.70	33.80
54.4	5.05	6.59	8.22	10.00	12.05	14.45	17.25	20.50			

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	3.42	3.68	3.97	4.31	4.69	5.11	5.57				
5.0	3.45	3.71	4.00	4.34	4.71	5.13	5.60				
10.0	3.71	3.97	4.27	4.60	4.97	5.38	5.83	6.32			
15.0	4.00	4.27	4.58	4.91	5.28	5.68	6.11	6.59	7.11		
20.0	4.32	4.61	4.93	5.27	5.63	6.03	6.46	6.92	7.42	7.96	
25.0	4.68	4.99	5.32	5.66	6.03	6.43	6.85	7.30	7.79	8.31	8.53
30.0	5.07	5.40	5.75	6.11	6.48	6.88	7.30	7.75	8.22	8.73	8.94
35.0	5.50	5.85	6.22	6.59	6.98	7.38	7.81	8.25	8.72	9.21	9.41
40.0	5.95	6.33	6.72	7.12	7.52	7.94	8.36	8.81	9.27	9.75	9.95
45.0	6.43	6.85	7.27	7.68	8.11	8.53	8.97	9.42	9.88	10.35	10.55
50.0	6.95	7.40	7.85	8.29	8.74	9.18	9.63	10.10	10.55	11.05	11.20
54.4	7.42	7.91	8.39	8.86	9.32	9.79	10.25	10.70			

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	10.40	10.73	11.13	11.62	12.21	12.88	13.66				
5.0	10.43	10.76	11.17	11.66	12.24	12.91	13.68				
10.0	10.76	11.10	11.51	12.00	12.56	13.21	13.95	14.79			
15.0	11.15	11.51	11.93	12.43	12.99	13.63	14.34	15.14	16.03		
20.0	11.60	11.99	12.44	12.94	13.51	14.14	14.84	15.62	16.48	17.42	
25.0	12.11	12.55	13.02	13.55	14.13	14.76	15.46	16.22	17.05	17.96	18.35
30.0	12.68	13.17	13.68	14.24	14.84	15.49	16.18	16.94	17.76	18.64	19.01
35.0	13.32	13.86	14.42	15.02	15.64	16.31	17.02	17.78	18.58	19.45	19.81
40.0	14.01	14.62	15.24	15.88	16.54	17.24	17.96	18.73	19.54	20.39	20.75
45.0	14.76	15.44	16.12	16.82	17.53	18.26	19.02	19.80	20.62	21.47	21.83
50.0	15.57	16.33	17.08	17.84	18.61	19.38	20.17	20.98	21.82	22.68	23.04
54.4	16.32	17.16	17.99	18.81	19.63	20.45	21.28	22.12			

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	64.60	81.30	101.50	125.50	154.00	188.00				
5.0	50.80	64.60	81.30	101.50	125.50	154.00	188.00				
10.0	50.70	64.50	81.00	101.00	124.50	153.00	186.50	226.00			
15.0	50.70	64.50	80.90	100.50	124.00	152.00	185.00	224.00	269.00		
20.0	50.70	64.60	80.90	100.50	123.50	151.00	183.50	222.00	267.00	320.00	
25.0	50.80	64.70	81.00	100.00	123.00	150.00	182.50	220.00	265.00	318.00	341.00
30.0	50.90	64.80	81.00	100.00	122.50	149.00	181.00	218.00	263.00	315.00	339.00
35.0	50.80	64.90	80.90	99.70	122.00	148.00	179.00	216.00	260.00	312.00	336.00
40.0	50.50	64.70	80.70	99.10	121.00	146.50	177.50	214.00	257.00	309.00	333.00
45.0	49.90	64.30	80.10	98.30	119.50	145.00	175.00	211.00	254.00	306.00	330.00
50.0	48.90	63.40	79.20	97.20	118.00	143.00	172.50	208.00	251.00	303.00	327.00
54.4	47.50	62.20	78.00	95.80	116.50	140.50	170.00	205.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	35.3
Length/Width, mm	310/280
Height, mm	534
Net Weight, kg	66.2
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 Conditions (LT, Temperatures:	-35 / 40 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	13.1
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00