



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	11.40	13.65	16.65	20.40	24.70	29.60	34.90				
5.0	11.40	13.65	16.65	20.30	24.70	29.50	34.80				
10.0	11.45	13.60	16.55	20.10	24.30	29.00	34.10	39.60			
15.0	11.40	13.55	16.35	19.85	23.90	28.40	33.40	38.70	44.20		
20.0	11.35	13.40	16.15	19.55	23.50	27.80	32.60	37.70	43.00	48.50	
25.0	11.20	13.25	15.90	19.20	23.00	27.20	31.80	36.70	41.90	47.10	49.20
30.0	11.00	13.00	15.65	18.85	22.50	26.60	31.00	35.70	40.60	45.60	47.70
35.0	10.75	12.70	15.30	18.40	22.00	25.90	30.20	34.70	39.40	44.20	46.20
40.0	10.45	12.40	14.90	17.95	21.40	25.30	29.40	33.70	38.20	42.80	44.60
45.0		12.05	14.50	17.45	20.90	24.60	28.50	32.70	37.00	41.30	
50.0		11.60	14.05	16.95	20.20	23.80	27.70	31.70	35.70		
54.4			13.60	16.45	19.65	23.20	26.90	30.70			

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	3.97	4.27	4.52	4.74	4.93	5.11	5.31				
5.0	4.00	4.31	4.56	4.78	4.98	5.16	5.36				
10.0	4.33	4.66	4.95	5.20	5.43	5.65	5.88	6.14			
15.0	4.69	5.05	5.38	5.66	5.92	6.18	6.44	6.74	7.07		
20.0	5.11	5.50	5.85	6.17	6.47	6.76	7.06	7.39	7.77	8.20	
25.0	5.58	6.00	6.39	6.74	7.08	7.40	7.74	8.10	8.52	8.99	9.20
30.0	6.11	6.57	6.98	7.37	7.73	8.10	8.47	8.87	9.32	9.84	10.05
35.0	6.70	7.18	7.64	8.05	8.46	8.85	9.26	9.70	10.20	10.75	11.00
40.0	7.34	7.87	8.35	8.81	9.25	9.68	10.10	10.60	11.10	11.70	12.00
45.0		8.63	9.15	9.63	10.10	10.60	11.05	11.55	12.15	12.75	
50.0		9.45	10.00	10.55	11.05	11.55	12.05	12.60	13.20		
54.4			10.85	11.40	11.95	12.50	13.05	13.60			

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	11.11	11.49	11.81	12.08	12.30	12.51	12.73				
5.0	11.15	11.54	11.87	12.14	12.37	12.59	12.82				
10.0	11.55	12.00	12.39	12.73	13.03	13.32	13.61	13.94			
15.0	12.04	12.54	13.00	13.41	13.78	14.13	14.50	14.91	15.38		
20.0	12.62	13.18	13.70	14.18	14.62	15.05	15.49	15.97	16.52	17.17	
25.0	13.30	13.92	14.51	15.05	15.56	16.07	16.58	17.14	17.78	18.51	18.84
30.0	14.08	14.78	15.43	16.04	16.61	17.19	17.78	18.42	19.14	19.96	20.33
35.0	14.98	15.74	16.46	17.13	17.78	18.43	19.10	19.82	20.62	21.53	21.95
40.0	16.00	16.82	17.61	18.36	19.09	19.81	20.56	21.36	22.24	23.24	23.68
45.0		18.06	18.92	19.73	20.53	21.33	22.15	23.02	23.99	25.09	
50.0		19.43	20.36	21.27	22.14	22.99	23.91	24.86	25.90		
54.4			21.80	22.75	23.69	24.63	25.58	26.60			

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	52.80	67.10	83.80	103.50	126.50	154.00	186.50				
5.0	52.80	67.10	83.80	103.50	126.50	154.00	186.50				
10.0	52.50	66.80	83.50	103.00	126.50	153.50	186.00	224.00			
15.0	52.30	66.50	83.10	102.50	126.00	153.00	185.50	223.00	267.00		
20.0	52.00	66.20	82.70	102.00	125.50	152.50	185.00	223.00	266.00	317.00	
25.0	51.70	65.80	82.30	101.50	125.00	152.00	184.50	222.00	266.00	316.00	338.00
30.0	51.40	65.40	81.80	101.00	124.00	151.50	183.50	221.00	265.00	315.00	337.00
35.0	51.10	65.00	81.30	100.50	123.50	150.50	182.50	220.00	264.00	314.00	336.00
40.0	50.80	64.50	80.60	99.80	122.50	149.50	181.50	219.00	263.00	313.00	335.00
45.0		64.00	80.00	99.00	121.50	148.50	180.50	218.00	261.00	311.00	
50.0		63.40	79.20	98.10	120.50	147.50	179.00	216.00	260.00		
54.4			78.50	97.20	119.50	146.50	178.00	215.00			

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	72
Sound Power (LT), dBA	83
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