



Minimum Evaporating Temp. With:

- 20 K Suction Superheat — 20 K Suction Superheat Liquid injection
- 20 °C Suction Gas Return Liquid injection
- 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	8.51	10.80	13.60	16.90	20.70	25.10	30.20				
5.0	8.48	10.80	13.60	16.85	20.70	25.10	30.10				
10.0	8.30	10.65	13.45	16.70	20.50	24.80	29.80	35.30			
15.0	8.17	10.50	13.30	16.55	20.30	24.60	29.40	34.80	40.90		
20.0	8.06	10.45	13.20	16.40	20.10	24.30	29.00	34.40	40.30	46.80	
25.0	7.96	10.35	13.10	16.25	19.90	24.00	28.70	33.80	39.60	46.00	48.70
30.0	7.85	10.20	12.95	16.10	19.65	23.70	28.20	33.30	38.90	45.10	47.70
35.0	7.71	10.05	12.80	15.85	19.35	23.30	27.70	32.60	38.00	44.10	46.60
40.0	7.52	9.87	12.55	15.55	18.95	22.80	27.10	31.80	37.10	43.00	45.40
45.0		9.58	12.20	15.15	18.50	22.20	26.40	31.00	36.10	41.70	
50.0							25.50	30.00	34.90		

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	3.58	3.99	4.39	4.79	5.22	5.68	6.20				
5.0	3.62	4.03	4.43	4.84	5.26	5.73	6.25				
10.0	3.90	4.33	4.75	5.18	5.64	6.13	6.68	7.30			
15.0	4.16	4.61	5.05	5.50	5.98	6.50	7.08	7.74	8.48		
20.0	4.44	4.90	5.36	5.83	6.33	6.87	7.48	8.16	8.94	9.82	
25.0	4.77	5.24	5.71	6.19	6.71	7.28	7.91	8.62	9.42	10.35	10.75
30.0	5.17	5.65	6.12	6.62	7.16	7.74	8.39	9.12	9.96	10.90	11.30
35.0	5.68	6.16	6.64	7.15	7.70	8.30	8.97	9.72	10.55	11.55	11.95
40.0	6.32	6.81	7.30	7.81	8.36	8.98	9.66	10.45	11.30	12.30	12.75
45.0		7.62	8.11	8.63	9.19	9.81	10.50	11.30	12.20	13.20	
50.0							11.55	12.35	13.25		

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	12.85	13.11	13.37	13.66	14.02	14.45	14.99				
5.0	12.89	13.15	13.42	13.71	14.07	14.51	15.05				
10.0	13.18	13.47	13.77	14.10	14.50	14.98	15.57	16.29			
15.0	13.38	13.71	14.05	14.42	14.86	15.38	16.01	16.78	17.71		
20.0	13.57	13.93	14.30	14.72	15.19	15.76	16.44	17.25	18.23	19.39	
25.0	13.79	14.18	14.59	15.04	15.56	16.17	16.89	17.75	18.77	19.99	20.53
30.0	14.08	14.51	14.95	15.44	16.00	16.65	17.42	18.33	19.40	20.67	21.23
35.0	14.51	14.97	15.45	15.98	16.58	17.27	18.08	19.04	20.16	21.48	22.06
40.0	15.11	15.61	16.12	16.69	17.33	18.07	18.92	19.93	21.10	22.47	23.07
45.0		16.48	17.03	17.64	18.32	19.10	20.00	21.05	22.27	23.69	
50.0							21.35	22.45	23.72		

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	32.20	42.50	54.60	69.00	86.20	106.50	130.50				
5.0	32.10	42.40	54.50	68.90	86.10	106.50	130.50				
10.0	31.40	41.80	54.10	68.70	86.00	106.50	131.00	159.00			
15.0	31.00	41.50	53.90	68.60	86.00	106.50	131.00	159.50	192.50		
20.0	30.90	41.50	53.90	68.60	86.10	106.50	131.00	159.50	192.50	230.00	
25.0	30.90	41.50	53.90	68.60	86.10	106.50	131.00	159.50	192.50	230.00	247.00
30.0	30.90	41.50	53.80	68.50	85.90	106.50	130.50	159.00	192.00	230.00	246.00
35.0	31.00	41.40	53.70	68.20	85.50	106.00	130.00	158.00	191.00	229.00	245.00
40.0	30.90	41.20	53.30	67.70	84.80	105.00	129.00	157.00	189.50	227.00	243.00
45.0		40.70	52.70	66.80	83.70	104.00	127.50	155.00	187.50	225.00	
50.0							125.50	153.00	185.00		

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)
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	1397
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
Mounting Grommets

Discharge line thermostat
Standard

ACCESSORIES OPTIONAL

Crankcase Heater
Liquid Injection
Oil Control System
Sound Attenuation
Rotalock valves

66 W External
DTC Valve
ALCO Trax-Oil OM3
Sound Shell
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