



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	6.95	8.83	11.10	13.80	16.90	20.50	24.60				
5.0	6.93	8.81	11.10	13.75	16.90	20.50	24.60				
10.0	6.78	8.68	10.95	13.65	16.70	20.30	24.30	28.80			
15.0	6.67	8.59	10.85	13.50	16.55	20.00	24.00	28.40	33.30		
20.0	6.58	8.51	10.80	13.40	16.40	19.85	23.70	28.00	32.80	38.10	
25.0	6.50	8.44	10.70	13.30	16.25	19.60	23.40	27.60	32.30	37.50	39.70
30.0	6.41	8.34	10.60	13.15	16.05	19.30	23.00	27.10	31.70	36.70	38.90
35.0	6.29	8.22	10.45	12.95	15.80	19.00	22.60	26.60	31.00	35.90	38.00
40.0	6.13	8.05	10.25	12.70	15.45	18.60	22.10	25.90	30.20	35.00	37.00
45.0		7.82	9.96	12.35	15.10	18.10	21.50	25.20	29.40	33.90	
50.0							20.80	24.40	28.40		

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	2.99	3.32	3.65	4.00	4.36	4.75	5.20				
5.0	3.02	3.35	3.69	4.03	4.39	4.79	5.24				
10.0	3.26	3.61	3.96	4.32	4.71	5.13	5.60	6.13			
15.0	3.48	3.85	4.22	4.59	5.00	5.44	5.93	6.48	7.13		
20.0	3.72	4.10	4.48	4.87	5.29	5.75	6.26	6.84	7.50	8.27	
25.0	4.00	4.38	4.78	5.18	5.62	6.09	6.62	7.21	7.90	8.68	9.03
30.0	4.34	4.73	5.13	5.55	6.00	6.48	7.03	7.64	8.34	9.15	9.50
35.0	4.77	5.17	5.58	6.00	6.46	6.96	7.52	8.15	8.87	9.69	10.05
40.0	5.31	5.72	6.14	6.57	7.03	7.54	8.11	8.76	9.49	10.35	10.70
45.0		6.41	6.83	7.27	7.74	8.25	8.83	9.48	10.25	11.10	
50.0							9.71	10.35	11.15		

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	10.38	10.56	10.77	11.02	11.32	11.69	12.17				
5.0	10.41	10.60	10.81	11.06	11.37	11.74	12.22				
10.0	10.66	10.87	11.11	11.39	11.72	12.12	12.61	13.23			
15.0	10.84	11.08	11.35	11.65	12.01	12.44	12.96	13.60	14.40		
20.0	11.00	11.27	11.57	11.90	12.29	12.75	13.31	13.97	14.79	15.78	
25.0	11.19	11.49	11.82	12.18	12.60	13.09	13.68	14.38	15.22	16.24	16.70
30.0	11.44	11.77	12.13	12.53	12.98	13.50	14.12	14.86	15.73	16.78	17.25
35.0	11.79	12.16	12.55	12.98	13.46	14.02	14.68	15.45	16.36	17.44	17.93
40.0	12.29	12.70	13.13	13.59	14.11	14.70	15.39	16.19	17.14	18.26	18.76
45.0		13.43	13.90	14.39	14.94	15.55	16.28	17.12	18.11	19.26	
50.0							17.41	18.28	19.31		

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	26.00	34.30	44.10	55.70	69.60	86.00	105.50				
5.0	26.00	34.20	44.00	55.70	69.60	86.00	105.50				
10.0	25.40	33.80	43.70	55.50	69.50	86.10	105.50	128.50			
15.0	25.10	33.60	43.50	55.40	69.50	86.10	105.50	128.50	155.50		
20.0	24.90	33.50	43.50	55.40	69.50	86.20	106.00	129.00	155.50	186.00	
25.0	24.90	33.50	43.50	55.40	69.50	86.20	106.00	128.50	155.50	186.00	199.50
30.0	25.00	33.50	43.50	55.30	69.40	86.00	105.50	128.50	155.00	185.50	199.00
35.0	25.00	33.40	43.40	55.10	69.10	85.60	105.00	128.00	154.00	184.50	198.00
40.0	25.00	33.30	43.10	54.70	68.50	84.90	104.00	127.00	153.00	183.50	196.50
45.0		32.90	42.50	54.00	67.60	83.80	103.00	125.50	151.50	181.50	
50.0							101.00	123.50	149.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	29.1
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	68
Sound Power (LT), dBA	79
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	25
Locked Rotor Current, A	100
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
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	220		Y	2.18