



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	9.27	11.35	13.80	16.70	20.10	24.00	28.40				
5.0	9.27	11.35	13.80	16.70	20.10	23.90	28.40				
10.0	9.23	11.30	13.75	16.60	19.90	23.70	28.00	33.00			
15.0	9.16	11.20	13.60	16.40	19.65	23.40	27.60	32.40	37.90		
20.0	9.07	11.10	13.45	16.20	19.35	23.00	27.10	31.80	37.10	43.00	
25.0	8.95	10.95	13.30	15.95	19.00	22.50	26.50	31.00	36.20	41.90	44.40
30.0	8.80	10.80	13.05	15.65	18.60	22.00	25.90	30.20	35.20	40.70	43.10
35.0	8.64	10.60	12.80	15.30	18.15	21.40	25.10	29.30	34.10	39.40	41.80
40.0	8.45	10.35	12.45	14.90	17.65	20.80	24.30	28.40	32.90	38.10	40.30
45.0		10.10	12.15	14.45	17.10	20.10	23.50	27.40	31.70	36.60	
50.0		9.79	11.75	14.00	16.50	19.35	22.60	26.20	30.40		
54.4			11.40	13.50	15.90	18.65	21.70	25.20			

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	3.26	3.50	3.71	3.90	4.06	4.20	4.34				
5.0	3.29	3.53	3.75	3.93	4.10	4.25	4.39				
10.0	3.56	3.83	4.07	4.28	4.48	4.65	4.83	5.00			
15.0	3.87	4.16	4.43	4.67	4.88	5.09	5.29	5.49	5.70		
20.0	4.21	4.53	4.82	5.08	5.33	5.57	5.80	6.03	6.27	6.53	
25.0	4.59	4.94	5.25	5.54	5.82	6.08	6.35	6.61	6.88	7.17	7.29
30.0	5.02	5.39	5.73	6.05	6.36	6.65	6.94	7.24	7.54	7.87	8.00
35.0	5.50	5.89	6.26	6.61	6.94	7.27	7.59	7.92	8.26	8.61	8.76
40.0	6.03	6.45	6.85	7.23	7.59	7.94	8.30	8.66	9.03	9.42	9.59
45.0		7.07	7.50	7.90	8.30	8.68	9.07	9.46	9.87	10.30	
50.0		7.76	8.21	8.65	9.07	9.49	9.91	10.35	10.75		
54.4			8.90	9.36	9.81	10.25	10.70	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	8.77	9.08	9.33	9.55	9.75	9.93	10.10				
5.0	8.80	9.11	9.37	9.60	9.80	9.99	10.17				
10.0	9.10	9.45	9.77	10.05	10.31	10.55	10.79	11.03			
15.0	9.46	9.87	10.24	10.57	10.89	11.18	11.48	11.78	12.10		
20.0	9.91	10.37	10.79	11.18	11.54	11.90	12.25	12.61	12.99	13.39	
25.0	10.44	10.96	11.43	11.87	12.29	12.70	13.10	13.52	13.96	14.42	14.62
30.0	11.07	11.63	12.15	12.65	13.12	13.58	14.05	14.52	15.01	15.54	15.76
35.0	11.79	12.41	12.98	13.53	14.05	14.57	15.09	15.62	16.17	16.75	17.00
40.0	12.62	13.28	13.91	14.51	15.09	15.66	16.23	16.82	17.43	18.07	18.34
45.0		14.27	14.95	15.60	16.23	16.86	17.49	18.13	18.79	19.49	
50.0		15.38	16.10	16.80	17.49	18.17	18.85	19.55	20.28		
54.4			17.22	17.97	18.70	19.43	20.16	20.90			

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	42.30	53.40	66.60	82.50	101.50	125.00	152.50				
5.0	42.30	53.40	66.70	82.60	102.00	125.00	152.50				
10.0	42.40	53.70	67.00	83.00	102.00	125.00	152.50	185.00			
15.0	42.40	53.80	67.20	83.10	102.50	125.00	152.50	185.00	223.00		
20.0	42.40	53.70	67.10	83.00	102.00	125.00	152.00	184.00	222.00	266.00	
25.0	42.20	53.60	66.90	82.70	101.50	124.00	151.00	183.00	220.00	264.00	283.00
30.0	41.90	53.20	66.40	82.10	101.00	123.00	150.00	181.50	218.00	261.00	280.00
35.0	41.60	52.70	65.80	81.20	99.70	122.00	148.00	179.50	216.00	258.00	277.00
40.0	41.10	52.10	64.90	80.20	98.40	120.00	146.00	177.00	213.00	255.00	274.00
45.0		51.30	63.90	78.80	96.70	118.00	143.50	174.00	209.00	251.00	
50.0		50.40	62.60	77.20	94.70	115.50	140.50	170.50	205.00		
54.4			61.40	75.60	92.70	113.00	138.00	167.00			

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 Power with Sound Shell (LT), dBA	67
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	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	3922
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