



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	8.46	10.75	13.50	16.80	20.60	25.00	30.00				
5.0	8.43	10.75	13.50	16.75	20.60	24.90	29.90				
10.0	8.25	10.55	13.35	16.60	20.40	24.70	29.60	35.00			
15.0	8.12	10.45	13.20	16.45	20.20	24.40	29.20	34.60	40.60		
20.0	8.01	10.35	13.10	16.30	20.00	24.10	28.80	34.10	40.00	46.40	
25.0	7.91	10.25	13.00	16.15	19.75	23.90	28.40	33.60	39.30	45.60	48.30
30.0	7.80	10.15	12.90	16.00	19.50	23.50	28.00	33.00	38.60	44.70	47.30
35.0	7.66	10.00	12.70	15.75	19.20	23.10	27.50	32.30	37.70	43.70	46.20
40.0	7.47	9.80	12.45	15.45	18.85	22.60	26.90	31.60	36.80	42.60	45.00
45.0		9.52	12.15	15.05	18.35	22.00	26.20	30.70	35.70	41.30	
50.0							25.30	29.70	34.50		

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	3.64	4.05	4.45	4.87	5.31	5.79	6.32				
5.0	3.68	4.09	4.49	4.91	5.35	5.83	6.38				
10.0	3.97	4.40	4.83	5.27	5.73	6.24	6.81	7.46			
15.0	4.25	4.69	5.14	5.60	6.09	6.62	7.22	7.89	8.67		
20.0	4.54	5.00	5.46	5.94	6.45	7.01	7.63	8.33	9.13	10.05	
25.0	4.87	5.35	5.82	6.32	6.85	7.42	8.06	8.79	9.62	10.55	11.00
30.0	5.29	5.77	6.26	6.77	7.31	7.90	8.57	9.31	10.15	11.15	11.55
35.0	5.81	6.30	6.80	7.32	7.87	8.48	9.16	9.93	10.80	11.80	12.25
40.0	6.48	6.97	7.48	8.01	8.57	9.19	9.89	10.65	11.55	12.60	13.05
45.0		7.82	8.33	8.87	9.44	10.05	10.75	11.55	12.45	13.50	
50.0							11.85	12.65	13.55		

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	13.07	13.30	13.56	13.87	14.25	14.71	15.30				
5.0	13.11	13.34	13.61	13.93	14.30	14.77	15.36				
10.0	13.42	13.69	13.99	14.34	14.75	15.25	15.87	16.64			
15.0	13.65	13.96	14.29	14.67	15.12	15.66	16.32	17.12	18.10		
20.0	13.86	14.20	14.57	14.99	15.48	16.06	16.75	17.59	18.61	19.85	
25.0	14.09	14.47	14.88	15.34	15.87	16.49	17.22	18.11	19.16	20.43	21.01
30.0	14.41	14.83	15.28	15.78	16.34	17.00	17.78	18.71	19.81	21.12	21.72
35.0	14.85	15.32	15.81	16.35	16.96	17.66	18.48	19.45	20.60	21.96	22.57
40.0	15.48	15.99	16.53	17.11	17.76	18.51	19.37	20.39	21.59	23.00	23.63
45.0		16.91	17.50	18.12	18.82	19.60	20.51	21.56	22.80	24.26	
50.0							21.92	23.02	24.32		

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	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	69
Sound Power (LT), dBA	80
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	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
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