



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
 — 10 K Suction Superheat
— 20 °C Suction Gas Return
- 25 °C Suction Gas Return with Voltage limit ± 0 %
 — Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	5.51	6.82	8.42	10.35						
15.0	5.29	6.58	8.14	10.00						
20.0	5.06	6.32	7.83	9.64	11.75					
25.0	4.81	6.04	7.51	9.26	11.30	13.70	14.75			
30.0	4.56	5.74	7.16	8.85	10.85	13.15	14.15	15.80	17.30	
35.0	4.29	5.44	6.80	8.42	10.30	12.55	13.50	15.10	16.50	
40.0	4.03	5.12	6.43	7.97	9.79	11.90	12.85	14.35	15.70	
45.0		4.80	6.04	7.51	9.23	11.25	12.15	13.60	14.90	
50.0			5.64	7.03	8.66	10.55	11.40	12.80	14.05	
55.0				6.53	8.07	9.87	10.65	11.95	13.15	
60.0				6.03	7.46	9.15	9.90	11.10	12.20	
65.0					6.84	8.41	9.11	10.25	11.30	
70.0						7.66	8.30	9.36	10.30	
75.0						6.89	7.48	8.45	9.33	

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	1.23	1.24	1.25	1.25						
15.0	1.42	1.42	1.44	1.44						
20.0	1.60	1.62	1.63	1.64	1.65					
25.0	1.80	1.82	1.84	1.85	1.86	1.87	1.88			
30.0	2.01	2.03	2.05	2.07	2.08	2.10	2.10	2.11	2.11	
35.0	2.25	2.27	2.29	2.31	2.32	2.34	2.34	2.35	2.36	
40.0	2.50	2.53	2.55	2.57	2.59	2.61	2.61	2.62	2.63	
45.0		2.82	2.85	2.87	2.89	2.91	2.91	2.92	2.93	
50.0			3.17	3.20	3.22	3.24	3.25	3.26	3.26	
55.0				3.57	3.60	3.62	3.62	3.63	3.64	
60.0				3.99	4.02	4.04	4.05	4.06	4.07	
65.0					4.49	4.52	4.52	4.54	4.54	
70.0						5.05	5.06	5.07	5.08	
75.0						5.65	5.66	5.67	5.68	

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	5.69	5.64	5.60	5.57						
15.0	5.82	5.78	5.75	5.73						
20.0	5.95	5.93	5.91	5.89	5.89					
25.0	6.10	6.09	6.08	6.07	6.07	6.09	6.10			
30.0	6.27	6.27	6.27	6.27	6.27	6.30	6.31	6.34	6.36	
35.0	6.47	6.48	6.49	6.49	6.51	6.53	6.55	6.57	6.60	
40.0	6.72	6.74	6.75	6.76	6.78	6.81	6.82	6.85	6.88	
45.0		7.04	7.06	7.08	7.10	7.13	7.15	7.17	7.20	
50.0			7.44	7.46	7.49	7.52	7.53	7.56	7.59	
55.0				7.91	7.94	7.97	7.99	8.01	8.04	
60.0				8.44	8.48	8.51	8.52	8.55	8.57	
65.0					9.10	9.13	9.15	9.17	9.19	
70.0						9.85	9.87	9.89	9.91	
75.0						10.68	10.70	10.72	10.74	

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	26.90	33.40	41.40	51.00						
15.0	26.80	33.40	41.50	51.20						
20.0	26.50	33.30	41.40	51.20	62.80					
25.0	26.20	33.00	41.20	51.10	62.80	76.70	82.90			
30.0	25.90	32.70	41.00	50.90	62.70	76.60	82.80	93.00	102.00	
35.0	25.40	32.30	40.60	50.60	62.40	76.40	82.70	92.90	102.00	
40.0	25.00	31.90	40.20	50.10	62.00	76.00	82.30	92.60	102.00	
45.0		31.30	39.60	49.60	61.40	75.50	81.80	92.10	101.50	
50.0			39.00	48.90	60.70	74.80	81.10	91.50	101.00	
55.0				48.10	59.90	74.00	80.30	90.70	100.00	
60.0				47.20	58.90	73.00	79.30	89.80	99.30	
65.0					57.80	71.80	78.20	88.70	98.30	
70.0						70.60	76.90	87.40	97.20	
75.0						69.20	75.60	86.10	96.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	17.1
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	39.1
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
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 (8.5)
Sound Pressure @ 1m (MT), dBA	62
Sound Power (MT), dBA	73
Sound Power with Sound Shell (MT), dBA	67
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	5.90
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	13.1
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09