



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return — 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
15.0	6.79	8.56	10.60	13.00	15.70	18.80				
20.0	6.43	8.16	10.20	12.55	15.20	18.25				
25.0	6.05	7.73	9.71	12.00	14.65	17.65	21.00	22.50		
30.0	5.66	7.28	9.20	11.45	14.05	17.00	20.30	21.80	24.10	26.10
35.0	5.26	6.81	8.66	10.85	13.35	16.25	19.55	21.00	23.20	25.20
40.0	4.85	6.32	8.09	10.20	12.65	15.45	18.65	20.10	22.30	24.30
45.0		5.82	7.49	9.50	11.85	14.60	17.75	19.10	21.30	23.20
50.0			6.89	8.78	11.05	13.70	16.75	18.05	20.20	22.10
55.0				8.05	10.20	12.75	15.70	17.00	19.10	21.00
60.0					9.33	11.75	14.60	15.85	17.90	19.75
65.0						10.75	13.45	14.70	16.65	18.45

Cond °C	Power, kW									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
15.0	1.93	1.96	2.00	2.03	2.04	2.04				
20.0	2.18	2.21	2.25	2.28	2.31	2.32				
25.0	2.47	2.49	2.53	2.56	2.59	2.61	2.62	2.62		
30.0	2.80	2.82	2.84	2.88	2.91	2.94	2.95	2.96	2.96	2.95
35.0	3.18	3.19	3.21	3.24	3.27	3.29	3.32	3.32	3.33	3.33
40.0	3.63	3.63	3.63	3.65	3.67	3.70	3.72	3.73	3.74	3.74
45.0		4.13	4.12	4.13	4.14	4.16	4.18	4.19	4.19	4.20
50.0			4.69	4.67	4.67	4.68	4.70	4.70	4.71	4.71
55.0				5.30	5.29	5.28	5.28	5.29	5.29	5.29
60.0					5.98	5.96	5.95	5.95	5.94	5.94
65.0						6.73	6.70	6.69	6.68	6.67

Cond °C	Current at 400 V, A									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
15.0	5.10	5.11	5.14	5.15	5.10	4.99				
20.0	5.32	5.34	5.39	5.42	5.43	5.36				
25.0	5.60	5.61	5.66	5.72	5.75	5.73	5.64	5.57		
30.0	5.95	5.94	5.99	6.05	6.10	6.12	6.07	6.03	5.94	5.82
35.0	6.39	6.36	6.38	6.44	6.50	6.55	6.53	6.51	6.45	6.36
40.0	6.96	6.88	6.87	6.92	6.98	7.03	7.04	7.03	6.99	6.93
45.0		7.53	7.48	7.50	7.54	7.59	7.62	7.62	7.59	7.55
50.0			8.23	8.20	8.22	8.26	8.29	8.29	8.28	8.25
55.0				9.06	9.04	9.06	9.07	9.07	9.06	9.04
60.0					10.02	10.00	9.99	9.99	9.97	9.95
65.0						11.11	11.07	11.06	11.03	11.00

Cond °C	Suction Mass Flow, g/s									
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
15.0	33.30	41.40	50.60	61.20	73.00	86.20				
20.0	32.70	40.90	50.40	61.10	73.20	86.70				
25.0	32.00	40.30	49.80	60.80	73.10	86.90	102.00	109.00		
30.0	31.20	39.50	49.10	60.20	72.70	86.80	102.50	109.00	120.00	129.00
35.0	30.30	38.50	48.20	59.40	72.10	86.50	102.50	109.50	120.00	129.50
40.0	29.30	37.40	47.10	58.30	71.20	85.80	102.00	109.00	120.50	130.00
45.0		36.20	45.80	57.00	70.00	84.80	101.50	108.50	120.00	130.00
50.0			44.30	55.50	68.60	83.60	100.50	108.00	119.50	130.00
55.0				53.80	66.90	82.00	99.40	107.00	119.00	129.50
60.0					64.90	80.30	97.90	105.50	118.00	129.00
65.0						78.30	96.30	104.50	117.00	128.50

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	1774
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