



Minimum Evaporating Temp. With:

- 10 K Suction Superheat — 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

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
4.0	5.02	6.25	7.77	9.60					
5.0	5.00	6.22	7.73	9.56					
10.0	4.78	5.96	7.41	9.16	11.25				
15.0	4.57	5.71	7.09	8.76	10.75				
20.0	4.36	5.46	6.78	8.37	10.25	12.45			
25.0	4.15	5.20	6.47	7.98	9.77	11.85	14.30	15.40	
30.0	3.95	4.95	6.16	7.59	9.28	11.25	13.60	14.60	16.25
35.0	3.74	4.70	5.85	7.20	8.80	10.65	12.85	13.80	15.40
40.0		4.45	5.53	6.81	8.31	10.05	12.10	13.05	14.50
45.0			5.21	6.41	7.81	9.46	11.40	12.25	13.60
50.0			4.88	6.00	7.31	8.85	10.65	11.45	12.75
55.0				5.59	6.81	8.23	9.89	10.65	11.85
60.0					6.29	7.60	9.13	9.81	10.90

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	1.04	1.08	1.13	1.19					
5.0	1.06	1.10	1.14	1.20					
10.0	1.20	1.24	1.28	1.34	1.40				
15.0	1.37	1.40	1.44	1.49	1.55				
20.0	1.56	1.59	1.62	1.66	1.72	1.78			
25.0	1.77	1.80	1.84	1.87	1.91	1.96	2.04	2.07	
30.0	2.01	2.04	2.07	2.10	2.14	2.18	2.24	2.27	2.31
35.0	2.27	2.31	2.34	2.36	2.39	2.43	2.47	2.50	2.53
40.0		2.61	2.63	2.66	2.68	2.71	2.75	2.76	2.79
45.0			2.97	2.99	3.01	3.03	3.05	3.07	3.09
50.0			3.34	3.36	3.37	3.39	3.40	3.41	3.43
55.0				3.77	3.78	3.79	3.79	3.80	3.80
60.0					4.22	4.23	4.23	4.23	4.23

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
4.0	3.62	3.64	3.67	3.72					
5.0	3.64	3.66	3.69	3.73					
10.0	3.75	3.77	3.80	3.84	3.90				
15.0	3.87	3.90	3.93	3.96	4.01				
20.0	4.02	4.05	4.07	4.11	4.15	4.21			
25.0	4.19	4.22	4.25	4.28	4.32	4.38	4.45	4.48	
30.0	4.41	4.44	4.47	4.50	4.54	4.58	4.64	4.67	4.72
35.0	4.67	4.71	4.74	4.77	4.80	4.84	4.89	4.91	4.96
40.0		5.04	5.07	5.10	5.13	5.16	5.20	5.22	5.25
45.0			5.48	5.50	5.53	5.55	5.58	5.60	5.62
50.0			5.96	5.99	6.01	6.03	6.05	6.06	6.08
55.0				6.56	6.58	6.59	6.61	6.61	6.63
60.0					7.26	7.26	7.27	7.27	7.28

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
4.0	22.50	28.10	35.10	43.60					
5.0	22.50	28.10	35.00	43.50					
10.0	22.20	27.80	34.70	43.10	53.30				
15.0	22.00	27.60	34.40	42.80	52.80				
20.0	21.80	27.30	34.10	42.40	52.30	64.20			
25.0	21.50	27.10	33.90	42.10	51.90	63.60	77.50	83.80	
30.0	21.30	26.90	33.60	41.70	51.40	63.00	76.80	83.10	93.20
35.0	21.10	26.70	33.40	41.40	51.00	62.50	76.20	82.30	92.40
40.0		26.50	33.10	41.10	50.60	61.90	75.50	81.60	91.70
45.0			32.90	40.80	50.20	61.40	74.80	80.90	90.90
50.0			32.60	40.50	49.80	60.90	74.20	80.30	90.30
55.0				40.10	49.40	60.40	73.70	79.80	89.70
60.0					49.10	60.10	73.30	79.40	89.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	11.4
Length/Width, mm	246/246
Height, mm	423
Net Weight, kg	28.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.45
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 (19)
Sound Pressure @ 1m (MT), dBA	58
Sound Power (MT), dBA	69
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Low Side Internal Free Volume, l	4.6
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	5.10
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	10
Locked Rotor Current, A	50
Winding Resistance, ohm	3.88
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

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