



Minimum Evaporating Temp. With:

- 10 K Suction Superheat    — 20 °C Suction Gas Return
- 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	20.0	
17.0	4.23	5.30	6.59										
20.0	4.12	5.16	6.43	7.95									
25.0	3.93	4.93	6.15	7.60	9.33	11.35							
30.0	3.73	4.70	5.86	7.25	8.90	10.85	13.10	14.10					
35.0	3.53	4.45	5.56	6.88	8.45	10.30	12.45	13.40	14.95	16.35			
40.0	3.33	4.21	5.25	6.50	7.99	9.74	11.80	12.70	14.15	15.50	16.90	20.10	
45.0	3.12	3.95	4.94	6.11	7.51	9.16	11.10	11.95	13.35	14.60	15.95	18.95	
50.0	2.90	3.68	4.61	5.71	7.02	8.57	10.40	11.20	12.55	13.70	15.00	17.85	
55.0		3.41	4.27	5.29	6.51	7.96	9.67	10.45	11.70	12.80	14.00		
60.0			3.92	4.86	5.99	7.33	8.93	9.64	10.80	11.85			
65.0				4.41	5.45	6.69	8.16	8.83	9.91				
67.0				4.23	5.23	6.42	7.85	8.50	9.55				

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	20.0
17.0	1.40	1.50	1.59									
20.0	1.48	1.56	1.65	1.72								
25.0	1.62	1.70	1.77	1.84	1.90	1.95						
30.0	1.78	1.85	1.92	1.98	2.03	2.08	2.12	2.14				
35.0	1.95	2.02	2.08	2.14	2.20	2.24	2.29	2.30	2.32	2.34		
40.0	2.14	2.21	2.27	2.34	2.39	2.44	2.49	2.51	2.53	2.55	2.57	2.60
45.0	2.33	2.41	2.49	2.55	2.62	2.68	2.73	2.75	2.78	2.81	2.83	2.87
50.0	2.54	2.63	2.71	2.80	2.87	2.95	3.01	3.04	3.08	3.11	3.14	3.19
55.0		2.86	2.96	3.06	3.15	3.24	3.33	3.36	3.41	3.45	3.49	
60.0			3.22	3.34	3.46	3.57	3.68	3.72	3.78	3.83		
65.0				3.65	3.79	3.93	4.06	4.12	4.19			
67.0				3.77	3.93	4.08	4.22	4.28	4.37			

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	20.0
17.0	4.06	4.14	4.22									
20.0	4.12	4.19	4.26	4.33								
25.0	4.23	4.30	4.36	4.42	4.47	4.52						
30.0	4.37	4.43	4.49	4.54	4.59	4.64	4.68	4.69				
35.0	4.53	4.59	4.65	4.71	4.76	4.81	4.85	4.87	4.89	4.90		
40.0	4.70	4.77	4.84	4.91	4.97	5.02	5.07	5.09	5.11	5.13	5.15	5.18
45.0	4.90	4.98	5.06	5.14	5.21	5.28	5.34	5.36	5.40	5.42	5.45	5.49
50.0	5.12	5.22	5.31	5.40	5.49	5.58	5.66	5.69	5.73	5.77	5.80	5.86
55.0		5.47	5.59	5.71	5.82	5.92	6.02	6.06	6.12	6.16	6.21	
60.0			5.90	6.04	6.17	6.31	6.43	6.48	6.56	6.62		
65.0				6.40	6.57	6.74	6.89	6.96	7.05			
67.0				6.56	6.74	6.92	7.09	7.16	7.26			

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	20.0
17.0	23.20	28.50	34.90									
20.0	23.10	28.50	34.80	42.30								
25.0	23.00	28.30	34.70	42.10	50.80	60.90						
30.0	22.90	28.20	34.50	41.90	50.50	60.50	71.90	76.90				
35.0	22.70	28.10	34.30	41.60	50.20	60.00	71.40	76.40	84.30	91.40		
40.0	22.50	27.90	34.10	41.30	49.80	59.50	70.70	75.70	83.60	90.60	98.10	114.50
45.0	22.30	27.60	33.80	40.90	49.30	58.90	70.00	74.90	82.70	89.70	97.10	113.50
50.0	22.10	27.40	33.40	40.50	48.70	58.20	69.20	74.00	81.80	88.70	96.10	112.50
55.0		27.00	33.00	40.00	48.00	57.40	68.30	73.00	80.70	87.60	95.00	
60.0			32.50	39.30	47.30	56.50	67.20	72.00	79.60	86.40		
65.0				38.60	46.40	55.50	66.10	70.80	78.40			
67.0				38.30	46.00	55.10	65.70	70.30	77.90			

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	11.4
Length/Width, mm	253/248
Height, mm	417
Net Weight, kg	28.5
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.45
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (MT), dBA	60
Sound Power (MT), dBA	71
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Max. Low Side Internal Free Volume, l	4.8
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	5.30
High Side PS gauge, bar	38
Low Side PS gauge, bar	23.5
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
High Side TS Max., °C	150
High Side TS Min., °C	-35
Refrigerant's GWP	148
Refrigerant's classification	A2L

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

Maximum Operating Current, A	8.8
Locked Rotor Current, A	50
Winding Resistance, ohm	3.88
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED****ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard
Oil Control System	ALCO Trax-Oil OM3

**MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04