



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	3.84	4.78	5.90									
20.0	3.74	4.66	5.76	7.08								
25.0	3.55	4.45	5.52	6.78	8.28	10.00						
30.0	3.36	4.23	5.26	6.47	7.91	9.58	11.50	12.35				
35.0	3.16	3.99	4.98	6.14	7.51	9.11	10.95	11.80	13.10	14.30		
40.0	2.96	3.75	4.69	5.80	7.10	8.62	10.40	11.20	12.45	13.55	14.80	17.45
45.0	2.74	3.50	4.38	5.43	6.66	8.11	9.79	10.55	11.75	12.80	13.95	16.50
50.0	2.52	3.23	4.06	5.05	6.21	7.57	9.16	9.86	11.00	12.05	13.15	15.55
55.0		2.96	3.73	4.65	5.73	7.00	8.50	9.17	10.25	11.20	12.25	
60.0			3.39	4.23	5.23	6.42	7.82	8.44	9.45	10.35		
65.0				3.80	4.72	5.82	7.11	7.69	8.64			
67.0				3.63	4.51	5.57	6.83	7.39	8.31			

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	1.23	1.31	1.39									
20.0	1.30	1.38	1.45	1.52								
25.0	1.44	1.50	1.56	1.62	1.68	1.73						
30.0	1.58	1.64	1.69	1.74	1.79	1.84	1.89	1.91				
35.0	1.74	1.78	1.84	1.88	1.94	1.98	2.03	2.05	2.08	2.11		
40.0	1.90	1.95	2.00	2.05	2.10	2.15	2.21	2.23	2.26	2.29	2.32	2.37
45.0	2.07	2.12	2.18	2.23	2.29	2.35	2.41	2.44	2.48	2.51	2.54	2.61
50.0	2.25	2.31	2.37	2.44	2.51	2.58	2.65	2.68	2.73	2.77	2.81	2.89
55.0		2.50	2.58	2.66	2.74	2.83	2.92	2.96	3.02	3.06	3.11	
60.0			2.80	2.90	3.00	3.11	3.22	3.26	3.33	3.39		
65.0				3.15	3.28	3.41	3.55	3.60	3.69			
67.0				3.26	3.40	3.54	3.68	3.74	3.84			

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	3.05	3.13	3.22									
20.0	3.13	3.20	3.27	3.35								
25.0	3.26	3.33	3.39	3.45	3.51	3.57						
30.0	3.42	3.47	3.52	3.58	3.63	3.69	3.74	3.77				
35.0	3.58	3.63	3.68	3.74	3.79	3.85	3.91	3.93	3.96	3.99		
40.0	3.76	3.81	3.87	3.93	3.99	4.05	4.11	4.14	4.18	4.21	4.25	4.32
45.0	3.95	4.01	4.08	4.15	4.22	4.29	4.37	4.40	4.45	4.49	4.53	4.61
50.0	4.16	4.23	4.31	4.40	4.48	4.57	4.67	4.71	4.77	4.82	4.87	4.97
55.0		4.47	4.57	4.68	4.78	4.90	5.02	5.06	5.14	5.20	5.27	
60.0			4.86	4.99	5.12	5.26	5.41	5.47	5.56	5.64		
65.0				5.33	5.49	5.67	5.85	5.93	6.04			
67.0				5.47	5.65	5.84	6.04	6.12	6.24			

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	21.10	25.70	31.20									
20.0	21.00	25.70	31.20	37.70								
25.0	20.80	25.60	31.10	37.60	45.10	53.70						
30.0	20.60	25.40	31.00	37.40	44.90	53.50	63.20	67.50				
35.0	20.30	25.20	30.70	37.20	44.60	53.10	62.90	67.10	73.90	79.90		
40.0	20.00	24.80	30.40	36.80	44.20	52.70	62.40	66.60	73.30	79.30	85.70	99.50
45.0	19.65	24.50	30.00	36.40	43.70	52.10	61.70	65.90	72.60	78.60	85.00	98.80
50.0	19.20	24.00	29.50	35.80	43.00	51.40	60.90	65.10	71.80	77.80	84.10	97.90
55.0		23.50	28.90	35.10	42.20	50.50	60.00	64.10	70.80	76.70	83.00	
60.0			28.10	34.20	41.30	49.50	58.90	63.00	69.60	75.50		
65.0				33.30	40.20	48.30	57.60	61.70	68.30			
67.0				32.80	39.70	47.80	57.10	61.20	67.80			

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	9.95
Length/Width, mm	253/248
Height, mm	401
Net Weight, kg	28.7
Gross Weight, kg	31.6
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
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (HT), dBA	64
Sound Power (HT), dBA	75
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
Max. Low Side Internal Free Volume, l	4.3
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	4.80
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	7.7
Locked Rotor Current, A	46
Winding Resistance, ohm	4.03
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

**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