



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	5.35	6.69	8.29										
20.0	5.20	6.51	8.08	9.93									
25.0	4.94	6.21	7.72	9.51	11.60	14.05							
30.0	4.68	5.90	7.36	9.07	11.10	13.45	16.15	17.35					
35.0	4.42	5.60	6.99	8.63	10.55	12.80	15.40	16.55	18.40	20.10			
40.0	4.16	5.28	6.61	8.17	10.00	12.15	14.65	15.75	17.50	19.10	20.80	24.50	
45.0	3.90	4.96	6.22	7.69	9.43	11.45	13.85	14.90	16.55	18.10	19.70	23.30	
50.0	3.63	4.63	5.82	7.21	8.84	10.75	13.00	14.00	15.60	17.05	18.60	22.00	
55.0		4.30	5.40	6.70	8.24	10.05	12.15	13.10	14.60	16.00	17.45		
60.0			4.98	6.18	7.61	9.30	11.30	12.15	13.60	14.90			
65.0				5.65	6.97	8.54	10.40	11.20	12.55				
67.0				5.43	6.71	8.23	10.05	10.85	12.15				

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	1.66	1.78	1.91									
20.0	1.75	1.87	1.99	2.10								
25.0	1.92	2.03	2.14	2.25	2.35	2.44						
30.0	2.11	2.21	2.32	2.42	2.52	2.61	2.70	2.73				
35.0	2.31	2.42	2.52	2.62	2.72	2.81	2.90	2.93	2.99	3.03		
40.0	2.52	2.63	2.74	2.85	2.95	3.05	3.14	3.18	3.23	3.28	3.32	3.40
45.0	2.75	2.87	2.99	3.10	3.21	3.32	3.43	3.47	3.52	3.57	3.62	3.71
50.0	2.98	3.12	3.25	3.38	3.51	3.63	3.75	3.79	3.86	3.91	3.97	4.07
55.0		3.38	3.53	3.68	3.82	3.96	4.10	4.15	4.23	4.30	4.36	
60.0			3.83	4.00	4.17	4.33	4.49	4.55	4.64	4.72		
65.0				4.34	4.54	4.73	4.91	4.99	5.09			
67.0				4.48	4.69	4.89	5.09	5.17	5.28			

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	5.40	5.51	5.62									
20.0	5.49	5.58	5.68	5.78								
25.0	5.63	5.72	5.80	5.89	5.97	6.06						
30.0	5.79	5.87	5.95	6.03	6.11	6.19	6.27	6.30				
35.0	5.95	6.03	6.11	6.20	6.28	6.36	6.44	6.47	6.52	6.56		
40.0	6.13	6.22	6.31	6.40	6.49	6.58	6.67	6.70	6.76	6.80	6.84	6.92
45.0	6.32	6.42	6.53	6.63	6.74	6.85	6.95	6.99	7.05	7.10	7.15	7.25
50.0	6.52	6.65	6.78	6.91	7.03	7.16	7.29	7.34	7.41	7.47	7.53	7.65
55.0		6.90	7.06	7.22	7.37	7.53	7.68	7.75	7.84	7.91	7.99	
60.0			7.38	7.57	7.76	7.95	8.14	8.22	8.33	8.42		
65.0				7.97	8.20	8.43	8.66	8.76	8.89			
67.0				8.14	8.39	8.64	8.89	8.99	9.14			

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	29.30	36.00	43.90										
20.0	29.20	35.90	43.80	52.90									
25.0	28.90	35.70	43.60	52.70	63.30	75.30							
30.0	28.70	35.50	43.30	52.50	63.00	75.00	88.70	94.70					
35.0	28.40	35.20	43.10	52.20	62.70	74.70	88.30	94.30	104.00	112.00			
40.0	28.20	35.00	42.80	51.90	62.30	74.20	87.80	93.80	103.00	111.50	120.50	140.00	
45.0	27.90	34.70	42.50	51.50	61.90	73.70	87.20	93.20	102.50	111.00	120.00	139.50	
50.0	27.60	34.40	42.20	51.10	61.30	73.10	86.60	92.50	102.00	110.00	119.00	138.50	
55.0		34.10	41.80	50.60	60.70	72.40	85.80	91.70	101.00	109.50	118.50		
60.0			41.30	50.00	60.10	71.70	85.00	90.80	100.00	108.50			
65.0				49.40	59.40	70.90	84.10	90.00	99.40				
67.0				49.20	59.10	70.60	83.80	89.70	99.10				

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	14.3
Length/Width, mm	255/261
Height, mm	442
Net Weight, kg	37.5
Gross Weight, kg	41.2
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.89
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	65
Sound Power (MT), dBA	76
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Max. Low Side Internal Free Volume, l	6.4
Max. High Side Internal Free Volume, l	0.6
Max. Internal Free Volume, l	7.00
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	11.3
Locked Rotor Current, A	64
Winding Resistance, ohm	2.74
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