



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	6.40	7.98	9.87										
20.0	6.20	7.75	9.60	11.80									
25.0	5.87	7.37	9.16	11.25	13.75	16.65							
30.0	5.55	7.00	8.71	10.75	13.10	15.90	19.10	20.50					
35.0	5.23	6.62	8.26	10.20	12.45	15.15	18.20	19.55	21.80	23.70			
40.0	4.91	6.24	7.80	9.65	11.80	14.35	17.30	18.60	20.70	22.60	24.60	29.00	
45.0	4.59	5.85	7.33	9.08	11.15	13.55	16.40	17.60	19.65	21.40	23.40	27.60	
50.0	4.26	5.45	6.85	8.51	10.45	12.75	15.40	16.60	18.50	20.20	22.10	26.20	
55.0		5.05	6.36	7.91	9.75	11.90	14.45	15.55	17.40	19.05	20.80		
60.0			5.86	7.30	9.02	11.05	13.45	14.50	16.25	17.80			
65.0				6.67	8.27	10.15	12.40	13.40	15.05				
67.0				6.42	7.97	9.81	12.00	13.00	14.55				

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	2.00	2.15	2.29									
20.0	2.11	2.25	2.37	2.49								
25.0	2.29	2.42	2.54	2.65	2.75	2.83						
30.0	2.50	2.63	2.74	2.85	2.94	3.03	3.10	3.12				
35.0	2.71	2.85	2.97	3.08	3.18	3.27	3.35	3.37	3.41	3.44		
40.0	2.94	3.08	3.22	3.34	3.46	3.56	3.65	3.68	3.72	3.76	3.79	3.85
45.0	3.16	3.33	3.49	3.63	3.76	3.88	3.99	4.03	4.09	4.14	4.18	4.25
50.0	3.39	3.59	3.77	3.94	4.10	4.25	4.38	4.44	4.51	4.57	4.62	4.73
55.0		3.84	4.06	4.27	4.46	4.64	4.81	4.88	4.97	5.05	5.12	
60.0			4.36	4.61	4.84	5.07	5.28	5.36	5.48	5.58		
65.0				4.96	5.24	5.52	5.78	5.88	6.03			
67.0				5.10	5.41	5.70	5.98	6.09	6.26			

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	5.69	5.82	5.94									
20.0	5.78	5.89	6.00	6.11								
25.0	5.94	6.05	6.15	6.24	6.33	6.41						
30.0	6.12	6.23	6.33	6.43	6.52	6.60	6.67	6.69				
35.0	6.32	6.43	6.55	6.66	6.76	6.85	6.93	6.96	7.00	7.02		
40.0	6.53	6.66	6.80	6.93	7.05	7.16	7.26	7.29	7.34	7.38	7.42	7.48
45.0	6.75	6.92	7.08	7.24	7.39	7.52	7.65	7.70	7.77	7.82	7.87	7.96
50.0	6.98	7.19	7.39	7.59	7.77	7.95	8.12	8.18	8.27	8.34	8.41	8.53
55.0		7.47	7.72	7.97	8.20	8.43	8.64	8.72	8.84	8.94	9.03	
60.0			8.08	8.38	8.68	8.96	9.23	9.33	9.49	9.61		
65.0				8.83	9.19	9.54	9.87	10.00	10.20			
67.0				9.01	9.40	9.78	10.15	10.29	10.50			

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	35.10	43.00	52.20									
20.0	34.80	42.70	52.00	62.80								
25.0	34.40	42.40	51.70	62.40	74.90	89.10						
30.0	34.00	42.00	51.30	62.10	74.50	88.70	105.00	112.00				
35.0	33.60	41.70	51.00	61.70	74.10	88.20	104.50	111.50	122.50	132.50		
40.0	33.30	41.30	50.60	61.30	73.60	87.70	104.00	111.00	122.00	132.00	142.50	165.50
45.0	32.90	40.90	50.20	60.80	73.10	87.20	103.50	110.50	121.50	131.50	142.00	165.00
50.0	32.50	40.50	49.70	60.30	72.50	86.60	102.50	109.50	121.00	131.00	141.50	164.50
55.0		40.10	49.20	59.70	71.90	85.90	102.00	109.00	120.00	130.00	141.00	
60.0			48.60	59.10	71.20	85.10	101.00	108.00	119.50	129.50		
65.0				58.40	70.50	84.40	100.50	107.50	119.00			
67.0				58.10	70.20	84.10	100.50	107.50	119.00			

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	16.7
Length/Width, mm	255/261
Height, mm	442
Net Weight, kg	39.1
Gross Weight, kg	41.6
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	12.9
Locked Rotor Current, A	74
Winding Resistance, ohm	2.47
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

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