



Minimum Evaporating Temp. With:

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

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
17.0	3.32	4.13	5.13	6.31	7.72					
20.0	3.21	4.02	4.99	6.14	7.52					
25.0	3.04	3.81	4.74	5.85	7.16	8.71	9.40			
30.0	2.85	3.59	4.48	5.54	6.79	8.26	8.92	9.98	10.95	11.95
35.0	2.66	3.37	4.21	5.21	6.40	7.80	8.42	9.43	10.35	11.35
40.0	2.47	3.13	3.93	4.87	5.99	7.32	7.91	8.86	9.73	10.65
45.0		2.89	3.64	4.52	5.57	6.82	7.37	8.28	9.09	9.98
50.0		2.65	3.34	4.16	5.14	6.30	6.83	7.67	8.44	9.27
55.0			3.04	3.80	4.70	5.78	6.26	7.05	7.77	8.55
60.0				3.42	4.25	5.24	5.69	6.42	7.08	7.81
65.0				3.05	3.79	4.70	5.10	5.77	6.38	7.05
70.0					3.33	4.14	4.51	5.12	5.67	6.28
75.0					2.87	3.58	3.91	4.45	4.95	5.50

50 Hz YH07K1E-TFD R513A

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
17.0	0.94	0.97	1.01	1.04	1.08					
20.0	1.00	1.02	1.06	1.10	1.14					
25.0	1.10	1.13	1.16	1.20	1.24	1.28	1.30			
30.0	1.22	1.24	1.28	1.31	1.35	1.40	1.42	1.44	1.47	1.50
35.0	1.34	1.37	1.40	1.44	1.48	1.52	1.54	1.58	1.60	1.63
40.0	1.48	1.50	1.54	1.58	1.62	1.67	1.69	1.72	1.75	1.78
45.0		1.66	1.70	1.74	1.78	1.84	1.86	1.89	1.92	1.95
50.0		1.82	1.86	1.90	1.96	2.01	2.04	2.07	2.10	2.14
55.0			2.04	2.09	2.15	2.21	2.24	2.28	2.31	2.35
60.0				2.30	2.36	2.43	2.45	2.50	2.53	2.57
65.0				2.51	2.58	2.66	2.69	2.74	2.78	2.82
70.0					2.82	2.91	2.94	3.00	3.04	3.09
75.0					3.08	3.18	3.21	3.27	3.32	3.38

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
17.0	2.79	2.82	2.85	2.88	2.92					
20.0	2.84	2.87	2.90	2.93	2.97					
25.0	2.94	2.96	2.99	3.02	3.06	3.10	3.12			
30.0	3.04	3.07	3.10	3.13	3.17	3.22	3.23	3.27	3.29	3.32
35.0	3.17	3.19	3.22	3.26	3.30	3.35	3.37	3.40	3.43	3.46
40.0	3.30	3.33	3.37	3.41	3.45	3.50	3.53	3.56	3.59	3.62
45.0		3.49	3.53	3.57	3.63	3.68	3.71	3.75	3.78	3.81
50.0		3.67	3.71	3.77	3.82	3.89	3.92	3.96	4.00	4.03
55.0			3.92	3.98	4.05	4.12	4.15	4.20	4.24	4.28
60.0				4.22	4.30	4.38	4.42	4.47	4.52	4.57
65.0				4.49	4.58	4.67	4.71	4.77	4.83	4.88
70.0					4.89	5.00	5.04	5.11	5.17	5.23
75.0					5.23	5.35	5.40	5.48	5.55	5.62

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
17.0	22.30	27.20	33.00	39.80	47.60					
20.0	22.20	27.10	32.90	39.70	47.60					
25.0	22.10	27.00	32.80	39.60	47.50	56.50	60.40			
30.0	21.90	26.80	32.60	39.40	47.20	56.20	60.10	66.40	72.00	78.00
35.0	21.60	26.60	32.40	39.10	46.80	55.80	59.70	65.90	71.50	77.50
40.0	21.30	26.30	32.00	38.70	46.40	55.20	59.10	65.30	70.90	76.80
45.0		25.90	31.60	38.20	45.80	54.50	58.40	64.50	70.10	75.90
50.0		25.40	31.10	37.60	45.10	53.70	57.50	63.60	69.10	74.90
55.0			30.50	36.90	44.20	52.80	56.50	62.60	68.00	73.70
60.0				36.10	43.30	51.70	55.40	61.30	66.70	72.40
65.0				35.20	42.20	50.40	54.10	59.90	65.20	70.90
70.0					41.00	49.00	52.60	58.30	63.60	69.20
75.0					39.70	47.50	50.90	56.60	61.70	67.30

### 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	631
Refrigerant's classification	A1

**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