



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	2.54	3.21	4.03	5.03	6.23					
20.0	2.46	3.11	3.91	4.87	6.04					
25.0	2.33	2.94	3.70	4.61	5.71	7.02	7.60			
30.0	2.20	2.78	3.49	4.35	5.39	6.62	7.17	8.07	8.89	9.76
35.0	2.06	2.61	3.28	4.09	5.06	6.22	6.74	7.59	8.36	9.19
40.0	1.93	2.44	3.07	3.82	4.73	5.82	6.31	7.10	7.83	8.61
45.0		2.28	2.86	3.56	4.40	5.41	5.87	6.61	7.29	8.02
50.0		2.11	2.64	3.29	4.07	5.01	5.43	6.12	6.75	7.44
55.0			2.43	3.02	3.74	4.60	4.99	5.63	6.21	6.85
60.0				2.75	3.40	4.19	4.54	5.13	5.67	6.26
65.0				2.48	3.06	3.77	4.10	4.63	5.12	5.66
70.0					2.72	3.35	3.65	4.13	4.57	5.06
75.0					2.38	2.93	3.19	3.62	4.02	4.46

50 Hz YH06K1E-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	0.74	0.77	0.80	0.84	0.88					
20.0	0.79	0.82	0.85	0.88	0.93					
25.0	0.87	0.90	0.93	0.96	1.01	1.05	1.07			
30.0	0.96	0.99	1.02	1.05	1.09	1.14	1.16	1.20	1.23	1.26
35.0	1.06	1.08	1.11	1.14	1.19	1.24	1.26	1.30	1.32	1.36
40.0	1.18	1.20	1.22	1.26	1.30	1.34	1.37	1.40	1.44	1.47
45.0		1.32	1.34	1.38	1.42	1.47	1.50	1.53	1.56	1.60
50.0		1.46	1.48	1.52	1.56	1.61	1.64	1.67	1.70	1.74
55.0			1.64	1.68	1.72	1.77	1.79	1.83	1.86	1.90
60.0				1.85	1.89	1.94	1.97	2.01	2.04	2.08
65.0				2.04	2.09	2.14	2.17	2.21	2.24	2.29
70.0					2.31	2.36	2.39	2.43	2.47	2.51
75.0					2.55	2.61	2.63	2.68	2.72	2.76

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	1.98	2.01	2.04	2.08	2.12					
20.0	2.02	2.05	2.09	2.13	2.17					
25.0	2.11	2.14	2.17	2.21	2.25	2.30	2.33			
30.0	2.21	2.23	2.26	2.30	2.35	2.40	2.43	2.46	2.50	2.53
35.0	2.32	2.34	2.37	2.41	2.46	2.51	2.54	2.58	2.61	2.65
40.0	2.45	2.47	2.50	2.53	2.58	2.64	2.67	2.71	2.75	2.79
45.0		2.61	2.64	2.68	2.73	2.79	2.82	2.86	2.90	2.95
50.0		2.78	2.81	2.85	2.90	2.96	2.99	3.04	3.08	3.13
55.0			3.00	3.04	3.09	3.16	3.19	3.24	3.28	3.33
60.0				3.26	3.32	3.39	3.42	3.47	3.52	3.57
65.0				3.52	3.57	3.65	3.68	3.73	3.78	3.84
70.0					3.87	3.94	3.98	4.03	4.08	4.14
75.0					4.20	4.27	4.31	4.37	4.43	4.48

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	17.10	21.10	25.90	31.70	38.40					
20.0	17.00	21.00	25.80	31.50	38.20					
25.0	16.90	20.90	25.60	31.20	37.80	45.50	48.90			
30.0	16.80	20.70	25.40	30.90	37.40	45.00	48.30	53.70	58.50	63.60
35.0	16.75	20.60	25.20	30.70	37.00	44.50	47.70	53.00	57.80	62.80
40.0	16.65	20.50	25.00	30.30	36.60	43.90	47.10	52.30	57.00	62.00
45.0		20.40	24.80	30.00	36.10	43.30	46.50	51.60	56.20	61.10
50.0		20.30	24.60	29.70	35.70	42.70	45.80	50.80	55.30	60.10
55.0			24.40	29.30	35.20	42.00	45.00	49.90	54.40	59.10
60.0				29.00	34.60	41.30	44.20	49.00	53.40	58.00
65.0				28.60	34.10	40.50	43.40	48.10	52.30	56.90
70.0					33.50	39.70	42.50	47.10	51.20	55.70
75.0					32.90	38.90	41.60	46.00	50.10	54.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.00
Length/Width, mm	253/248
Height, mm	387
Net Weight, kg	27.7
Gross Weight, kg	30.5
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	61
Sound Power (HT), dBA	72
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
Max. Low Side Internal Free Volume, l	4.2
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	4.70
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	6.2
Locked Rotor Current, A	32
Winding Resistance, ohm	5.48
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