



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	3.02	3.75	4.63	5.67	6.90					
20.0	2.93	3.64	4.50	5.53	6.73					
25.0	2.77	3.46	4.29	5.27	6.43	7.79	8.39			
30.0	2.60	3.26	4.05	5.00	6.11	7.41	7.99	8.92	9.75	10.65
35.0	2.42	3.05	3.81	4.71	5.77	7.02	7.57	8.46	9.25	10.10
40.0	2.24	2.84	3.56	4.41	5.42	6.60	7.12	7.97	8.73	9.55
45.0		2.62	3.29	4.10	5.05	6.16	6.66	7.47	8.19	8.97
50.0		2.40	3.02	3.77	4.66	5.71	6.18	6.94	7.62	8.36
55.0			2.75	3.44	4.26	5.24	5.68	6.39	7.04	7.73
60.0				3.10	3.86	4.76	5.17	5.83	6.43	7.08
65.0				2.75	3.44	4.26	4.64	5.25	5.81	6.41
70.0					3.01	3.76	4.10	4.65	5.16	5.72
75.0					2.57	3.24	3.54	4.05	4.51	5.01

50 Hz

YH07K1E-TFD

R1234yf

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	0.98	1.04	1.10	1.16	1.23					
20.0	1.02	1.08	1.13	1.18	1.25					
25.0	1.09	1.14	1.19	1.24	1.30	1.36	1.38			
30.0	1.18	1.22	1.27	1.32	1.36	1.42	1.44	1.48	1.51	1.54
35.0	1.28	1.32	1.36	1.40	1.46	1.52	1.54	1.58	1.60	1.64
40.0	1.38	1.42	1.46	1.52	1.56	1.62	1.65	1.69	1.72	1.76
45.0		1.54	1.58	1.64	1.70	1.76	1.78	1.82	1.86	1.90
50.0		1.67	1.72	1.78	1.84	1.91	1.94	1.98	2.02	2.07
55.0			1.87	1.94	2.01	2.08	2.12	2.17	2.21	2.26
60.0				2.11	2.19	2.27	2.31	2.37	2.42	2.47
65.0				2.29	2.38	2.48	2.53	2.59	2.65	2.71
70.0					2.60	2.71	2.76	2.83	2.90	2.96
75.0					2.82	2.95	3.01	3.09	3.17	3.24

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	2.83	2.88	2.94	3.00	3.06					
20.0	2.86	2.91	2.96	3.02	3.07					
25.0	2.93	2.97	3.02	3.07	3.12	3.18	3.20			
30.0	3.01	3.05	3.09	3.14	3.19	3.24	3.27	3.30	3.34	3.37
35.0	3.10	3.14	3.18	3.23	3.28	3.34	3.36	3.40	3.43	3.47
40.0	3.21	3.25	3.29	3.34	3.39	3.45	3.48	3.52	3.56	3.60
45.0		3.37	3.41	3.47	3.53	3.60	3.63	3.67	3.72	3.76
50.0		3.50	3.56	3.62	3.69	3.77	3.80	3.86	3.90	3.95
55.0			3.72	3.80	3.88	3.97	4.01	4.07	4.12	4.18
60.0				4.00	4.09	4.20	4.24	4.31	4.37	4.44
65.0				4.22	4.33	4.45	4.51	4.59	4.66	4.73
70.0					4.60	4.74	4.80	4.90	4.98	5.06
75.0					4.89	5.06	5.13	5.24	5.33	5.43

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	22.20	26.90	32.30	38.70	46.00					
20.0	22.20	26.90	32.40	38.80	46.10					
25.0	22.10	26.90	32.40	38.90	46.30	54.60	58.30			
30.0	22.00	26.80	32.40	38.90	46.30	54.70	58.40	64.20	69.30	74.80
35.0	21.80	26.70	32.30	38.80	46.20	54.70	58.30	64.20	69.30	74.80
40.0	21.70	26.50	32.10	38.60	46.10	54.50	58.20	64.00	69.20	74.70
45.0		26.30	31.90	38.40	45.80	54.20	57.90	63.70	68.90	74.40
50.0		26.00	31.60	38.00	45.40	53.80	57.50	63.30	68.50	74.00
55.0			31.20	37.60	44.90	53.30	56.90	62.80	68.00	73.50
60.0				37.00	44.30	52.60	56.30	62.10	67.30	72.80
65.0				36.40	43.60	51.80	55.40	61.20	66.40	72.00
70.0					42.80	50.90	54.50	60.30	65.50	71.00
75.0					41.90	49.90	53.50	59.20	64.40	70.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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)	
PED Category	II
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	4
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

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