



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	2.88	3.67	4.62	5.76	7.11					
20.0	2.79	3.56	4.49	5.60	6.92					
25.0	2.63	3.37	4.26	5.34	6.60	8.09	8.75			
30.0	2.47	3.18	4.04	5.07	6.28	7.71	8.35	9.37	10.30	11.30
35.0	2.32	3.00	3.82	4.80	5.96	7.33	7.94	8.93	9.81	10.75
40.0	2.16	2.81	3.59	4.53	5.64	6.95	7.53	8.48	9.33	10.25
45.0		2.62	3.36	4.25	5.31	6.56	7.12	8.02	8.84	9.72
50.0		2.44	3.14	3.98	4.98	6.17	6.70	7.57	8.35	9.18
55.0			2.91	3.70	4.65	5.78	6.28	7.10	7.84	8.65
60.0				3.43	4.32	5.38	5.86	6.63	7.34	8.10
65.0				3.15	3.98	4.98	5.43	6.16	6.83	7.55
70.0					3.64	4.57	4.99	5.68	6.31	6.99
75.0					3.30	4.16	4.55	5.19	5.78	6.42

50 Hz

YH07K1E-TFD

R134a

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	0.91	0.93	0.95	0.97	0.98					
20.0	0.96	0.98	1.01	1.02	1.04					
25.0	1.04	1.08	1.10	1.12	1.14	1.16	1.16			
30.0	1.13	1.16	1.20	1.23	1.26	1.28	1.28	1.30	1.30	1.30
35.0	1.22	1.27	1.30	1.34	1.38	1.40	1.42	1.42	1.44	1.44
40.0	1.32	1.37	1.42	1.46	1.50	1.54	1.55	1.57	1.58	1.60
45.0		1.49	1.54	1.60	1.64	1.68	1.70	1.72	1.74	1.76
50.0		1.62	1.68	1.74	1.80	1.85	1.87	1.90	1.92	1.94
55.0			1.84	1.90	1.96	2.03	2.05	2.08	2.11	2.14
60.0				2.08	2.15	2.22	2.25	2.29	2.32	2.35
65.0				2.27	2.36	2.44	2.47	2.51	2.55	2.59
70.0					2.58	2.67	2.71	2.76	2.80	2.84
75.0					2.83	2.93	2.97	3.03	3.08	3.13

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	2.95	2.97	2.99	3.00	3.01					
20.0	2.99	3.01	3.03	3.04	3.06					
25.0	3.05	3.08	3.10	3.12	3.14	3.15	3.15			
30.0	3.12	3.15	3.18	3.21	3.23	3.25	3.25	3.26	3.26	3.27
35.0	3.20	3.23	3.27	3.30	3.33	3.36	3.37	3.38	3.39	3.39
40.0	3.29	3.33	3.37	3.41	3.45	3.48	3.50	3.51	3.53	3.54
45.0		3.44	3.49	3.54	3.59	3.63	3.65	3.67	3.69	3.71
50.0		3.57	3.63	3.69	3.75	3.80	3.82	3.85	3.88	3.90
55.0			3.79	3.86	3.93	4.00	4.02	4.06	4.09	4.12
60.0				4.06	4.14	4.22	4.25	4.30	4.34	4.38
65.0				4.29	4.38	4.48	4.52	4.57	4.62	4.66
70.0					4.66	4.78	4.82	4.88	4.94	4.99
75.0					4.98	5.11	5.16	5.24	5.30	5.36

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	16.85	21.10	26.00	31.90	38.60					
20.0	16.70	20.90	25.90	31.70	38.50					
25.0	16.50	20.70	25.70	31.50	38.30	46.00	49.40			
30.0	16.25	20.50	25.40	31.30	38.00	45.80	49.20	54.60	59.50	64.60
35.0	16.00	20.20	25.20	31.00	37.80	45.50	48.90	54.40	59.20	64.40
40.0	15.75	19.95	24.90	30.70	37.50	45.20	48.70	54.10	59.00	64.10
45.0		19.70	24.70	30.50	37.20	45.00	48.40	53.80	58.70	63.90
50.0		19.45	24.40	30.20	36.90	44.60	48.00	53.50	58.40	63.60
55.0			24.10	29.90	36.60	44.30	47.70	53.20	58.10	63.30
60.0				29.50	36.20	44.00	47.40	52.90	57.80	63.00
65.0				29.20	35.90	43.60	47.10	52.60	57.50	62.80
70.0					35.60	43.30	46.80	52.30	57.30	62.60
75.0					35.30	43.10	46.50	52.10	57.10	62.50

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)	
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	1430
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

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