



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	2.26	2.88	3.63	4.52	5.58					
20.0	2.19	2.79	3.52	4.40	5.43					
25.0	2.06	2.65	3.35	4.19	5.18	6.35	6.87			
30.0	1.94	2.50	3.17	3.98	4.93	6.06	6.55	7.36	8.08	8.86
35.0	1.82	2.35	3.00	3.77	4.68	5.76	6.24	7.01	7.71	8.45
40.0	1.70	2.21	2.82	3.55	4.43	5.46	5.92	6.66	7.33	8.05
45.0		2.06	2.64	3.34	4.17	5.15	5.59	6.30	6.94	7.63
50.0		1.92	2.46	3.12	3.91	4.85	5.26	5.94	6.55	7.21
55.0			2.29	2.91	3.65	4.54	4.93	5.58	6.16	6.79
60.0				2.69	3.39	4.22	4.60	5.21	5.76	6.36
65.0				2.47	3.13	3.91	4.26	4.84	5.36	5.93
70.0					2.86	3.59	3.92	4.46	4.95	5.49
75.0					2.59	3.27	3.57	4.08	4.54	5.04

50 Hz

YH06K1E-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	0.73	0.75	0.76	0.78	0.78					
20.0	0.76	0.79	0.81	0.82	0.83					
25.0	0.83	0.86	0.88	0.90	0.92	0.93	0.93			
30.0	0.90	0.93	0.96	0.98	1.01	1.02	1.03	1.03	1.04	1.04
35.0	0.98	1.01	1.04	1.08	1.10	1.12	1.13	1.14	1.15	1.16
40.0	1.06	1.10	1.14	1.17	1.20	1.23	1.24	1.26	1.27	1.28
45.0		1.19	1.24	1.28	1.32	1.35	1.36	1.38	1.40	1.40
50.0		1.30	1.34	1.39	1.44	1.48	1.50	1.52	1.54	1.55
55.0			1.46	1.52	1.57	1.62	1.64	1.66	1.68	1.71
60.0				1.66	1.72	1.78	1.80	1.83	1.86	1.88
65.0				1.82	1.88	1.95	1.98	2.01	2.04	2.07
70.0					2.07	2.14	2.17	2.21	2.24	2.27
75.0					2.27	2.35	2.38	2.42	2.46	2.50

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	2.09	2.10	2.12	2.13	2.14					
20.0	2.12	2.14	2.15	2.17	2.18					
25.0	2.17	2.19	2.21	2.23	2.24	2.25	2.25			
30.0	2.23	2.25	2.28	2.30	2.31	2.33	2.33	2.34	2.34	2.34
35.0	2.29	2.32	2.34	2.37	2.39	2.41	2.42	2.43	2.44	2.44
40.0	2.36	2.39	2.42	2.46	2.49	2.51	2.52	2.54	2.55	2.56
45.0		2.48	2.52	2.56	2.59	2.63	2.64	2.66	2.68	2.69
50.0		2.58	2.63	2.67	2.72	2.77	2.78	2.81	2.83	2.85
55.0			2.75	2.81	2.87	2.92	2.95	2.98	3.00	3.03
60.0				2.97	3.04	3.11	3.14	3.17	3.21	3.24
65.0				3.16	3.24	3.32	3.36	3.40	3.44	3.48
70.0					3.48	3.57	3.61	3.66	3.71	3.75
75.0					3.74	3.85	3.90	3.96	4.02	4.07

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	13.25	16.55	20.40	25.00	30.30					
20.0	13.10	16.45	20.30	24.90	30.20					
25.0	12.95	16.25	20.20	24.70	30.00	36.10	38.80			
30.0	12.75	16.05	20.00	24.60	29.90	36.00	38.60	42.90	46.70	50.70
35.0	12.55	15.90	19.80	24.40	29.70	35.70	38.40	42.70	46.50	50.50
40.0	12.35	15.70	19.60	24.10	29.40	35.50	38.20	42.50	46.30	50.40
45.0		15.50	19.35	23.90	29.20	35.30	38.00	42.30	46.10	50.10
50.0		15.30	19.15	23.70	29.00	35.10	37.70	42.00	45.90	49.90
55.0			18.95	23.40	28.70	34.80	37.50	41.80	45.60	49.70
60.0				23.20	28.50	34.50	37.20	41.50	45.40	49.50
65.0				23.00	28.20	34.30	37.00	41.30	45.20	49.30
70.0					27.90	34.00	36.70	41.10	45.00	49.10
75.0					27.70	33.80	36.50	40.90	44.90	49.10

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	1430
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