



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	5.04	6.26	7.72	9.47	11.50					
20.0	4.88	6.08	7.52	9.23	11.25					
25.0	4.61	5.77	7.16	8.81	10.75	13.00	14.00			
30.0	4.34	5.45	6.78	8.36	10.20	12.40	13.35	14.90	16.30	17.75
35.0	4.05	5.11	6.39	7.89	9.67	11.75	12.65	14.15	15.45	16.90
40.0	3.76	4.77	5.97	7.40	9.09	11.05	11.95	13.35	14.60	15.95
45.0		4.41	5.55	6.90	8.49	10.35	11.20	12.50	13.70	15.00
50.0		4.04	5.10	6.37	7.86	9.62	10.40	11.65	12.80	14.00
55.0			4.65	5.82	7.21	8.85	9.58	10.75	11.85	13.00
60.0				5.26	6.54	8.06	8.75	9.85	10.85	11.95
65.0				4.69	5.86	7.25	7.88	8.90	9.83	10.85
70.0					5.15	6.42	6.99	7.93	8.78	9.71
75.0					4.43	5.56	6.08	6.93	7.71	8.56

50 Hz

YH13K1E-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	1.61	1.71	1.80	1.90	1.98					
20.0	1.66	1.76	1.86	1.94	2.03					
25.0	1.77	1.86	1.96	2.04	2.12	2.20	2.23			
30.0	1.90	1.98	2.08	2.16	2.25	2.33	2.36	2.41	2.45	2.49
35.0	2.03	2.13	2.22	2.31	2.40	2.49	2.52	2.57	2.62	2.66
40.0	2.18	2.28	2.38	2.48	2.58	2.68	2.72	2.77	2.82	2.87
45.0		2.46	2.57	2.68	2.79	2.90	2.94	3.01	3.06	3.11
50.0		2.65	2.77	2.90	3.02	3.15	3.20	3.27	3.33	3.40
55.0			3.00	3.14	3.28	3.42	3.48	3.57	3.64	3.71
60.0				3.40	3.56	3.73	3.80	3.90	3.98	4.07
65.0				3.68	3.87	4.06	4.14	4.26	4.36	4.45
70.0					4.20	4.42	4.51	4.65	4.76	4.87
75.0					4.56	4.81	4.91	5.07	5.20	5.33

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	5.42	5.49	5.57	5.63	5.70					
20.0	5.47	5.54	5.60	5.67	5.73					
25.0	5.55	5.61	5.68	5.74	5.80	5.86	5.89			
30.0	5.64	5.70	5.77	5.83	5.90	5.96	5.99	6.03	6.06	6.10
35.0	5.74	5.81	5.88	5.95	6.02	6.10	6.13	6.17	6.21	6.25
40.0	5.85	5.93	6.01	6.10	6.18	6.27	6.30	6.36	6.40	6.45
45.0		6.07	6.17	6.27	6.37	6.48	6.52	6.58	6.64	6.70
50.0		6.24	6.35	6.47	6.60	6.72	6.78	6.86	6.92	6.99
55.0			6.57	6.71	6.86	7.01	7.08	7.17	7.26	7.34
60.0				6.98	7.16	7.35	7.42	7.54	7.64	7.74
65.0				7.29	7.51	7.73	7.82	7.96	8.08	8.19
70.0					7.90	8.16	8.27	8.43	8.57	8.71
75.0					8.33	8.64	8.76	8.95	9.12	9.28

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	37.00	44.80	54.00	64.60	76.80					
20.0	37.00	44.90	54.10	64.80	77.00					
25.0	36.90	44.90	54.20	65.00	77.30	91.20	97.30			
30.0	36.70	44.80	54.20	65.00	77.40	91.40	97.50	107.00	116.00	125.00
35.0	36.50	44.70	54.10	65.00	77.40	91.40	97.60	107.50	116.00	125.00
40.0	36.20	44.50	54.00	64.80	77.30	91.30	97.40	107.00	116.00	125.00
45.0		44.20	53.70	64.60	77.00	91.00	97.20	107.00	115.50	124.50
50.0		43.80	53.30	64.10	76.50	90.60	96.70	106.50	115.00	124.00
55.0			52.80	63.60	75.90	89.90	96.00	106.00	114.50	123.50
60.0				62.90	75.20	89.10	95.20	105.00	113.50	122.50
65.0				62.20	74.30	88.10	94.20	104.00	112.50	121.50
70.0					73.20	87.00	93.00	102.50	111.50	120.50
75.0					72.10	85.70	91.70	101.50	110.00	119.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	16.7
Length/Width, mm	255/261
Height, mm	442
Net Weight, kg	39.1
Gross Weight, kg	41.6
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.89
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (MT), dBA	65
Sound Power (MT), dBA	76
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	II
Max. Low Side Internal Free Volume, l	6.4
Max. High Side Internal Free Volume, l	0.6
Max. Internal Free Volume, l	7.00
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	12.9
Locked Rotor Current, A	74
Winding Resistance, ohm	2.47
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