



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	4.25	5.30	6.57	8.08	9.87					
20.0	4.11	5.14	6.38	7.86	9.61					
25.0	3.88	4.87	6.06	7.48	9.16	11.10	12.00			
30.0	3.64	4.59	5.73	7.09	8.69	10.55	11.40	12.75	13.95	15.20
35.0	3.40	4.31	5.39	6.68	8.20	9.99	10.80	12.05	13.20	14.45
40.0	3.16	4.02	5.04	6.26	7.71	9.40	10.15	11.35	12.45	13.65
45.0		3.72	4.68	5.83	7.19	8.79	9.50	10.65	11.70	12.80
50.0		3.41	4.31	5.39	6.66	8.16	8.83	9.92	10.90	11.95
55.0			3.94	4.93	6.12	7.52	8.14	9.16	10.10	11.05
60.0				4.46	5.56	6.85	7.44	8.38	9.24	10.15
65.0				3.99	4.98	6.17	6.71	7.59	8.38	9.24
70.0					4.39	5.48	5.97	6.77	7.50	8.29
75.0					3.79	4.76	5.20	5.93	6.60	7.32

50 Hz

YH11K1E-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	1.34	1.42	1.52	1.62	1.73					
20.0	1.38	1.48	1.56	1.66	1.76					
25.0	1.48	1.57	1.66	1.74	1.84	1.93	1.97			
30.0	1.60	1.68	1.76	1.84	1.94	2.03	2.06	2.12	2.17	2.22
35.0	1.72	1.80	1.88	1.97	2.06	2.15	2.19	2.25	2.29	2.34
40.0	1.86	1.95	2.03	2.12	2.21	2.30	2.34	2.40	2.45	2.50
45.0		2.11	2.20	2.29	2.38	2.48	2.52	2.58	2.64	2.69
50.0		2.28	2.38	2.48	2.58	2.69	2.73	2.80	2.86	2.91
55.0			2.59	2.70	2.81	2.93	2.97	3.05	3.11	3.17
60.0				2.93	3.06	3.19	3.24	3.32	3.39	3.46
65.0				3.20	3.34	3.48	3.54	3.63	3.71	3.79
70.0					3.64	3.81	3.87	3.98	4.06	4.15
75.0					3.97	4.16	4.23	4.35	4.44	4.54

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	5.18	5.25	5.33	5.40	5.48					
20.0	5.23	5.29	5.36	5.43	5.51					
25.0	5.31	5.37	5.43	5.50	5.57	5.64	5.67			
30.0	5.39	5.45	5.51	5.57	5.64	5.71	5.74	5.78	5.82	5.86
35.0	5.49	5.55	5.60	5.67	5.73	5.80	5.83	5.88	5.92	5.96
40.0	5.59	5.65	5.71	5.78	5.85	5.93	5.96	6.01	6.05	6.09
45.0		5.77	5.84	5.91	5.99	6.08	6.11	6.16	6.21	6.26
50.0		5.91	5.99	6.07	6.16	6.26	6.30	6.36	6.41	6.47
55.0			6.16	6.26	6.36	6.47	6.52	6.59	6.65	6.71
60.0				6.48	6.60	6.73	6.78	6.86	6.93	7.00
65.0				6.73	6.87	7.02	7.08	7.18	7.26	7.34
70.0					7.18	7.36	7.43	7.54	7.63	7.73
75.0					7.54	7.74	7.82	7.95	8.06	8.17

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	31.20	38.00	45.90	55.10	65.80					
20.0	31.10	37.90	45.90	55.20	65.80					
25.0	31.00	37.90	45.90	55.20	65.80	78.00	83.30			
30.0	30.90	37.80	45.80	55.10	65.80	77.90	83.20	91.60	99.10	107.00
35.0	30.70	37.60	45.70	55.00	65.70	77.80	83.10	91.50	99.00	107.00
40.0	30.50	37.50	45.50	54.80	65.50	77.60	82.90	91.30	98.70	106.50
45.0		37.30	45.30	54.60	65.20	77.30	82.60	90.90	98.40	106.50
50.0		37.00	45.00	54.30	64.80	76.90	82.10	90.50	97.90	106.00
55.0			44.70	53.90	64.40	76.40	81.60	90.00	97.40	105.00
60.0				53.40	63.80	75.70	81.00	89.30	96.70	104.50
65.0				52.90	63.20	75.00	80.20	88.50	95.90	104.00
70.0					62.50	74.20	79.40	87.70	95.10	103.00
75.0					61.70	73.40	78.50	86.80	94.20	102.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.3
Length/Width, mm	255/261
Height, mm	442
Net Weight, kg	37.5
Gross Weight, kg	41.2
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	11.3
Locked Rotor Current, A	64
Winding Resistance, ohm	2.74
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