



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	4.61	5.78	7.19	8.88	10.90					
20.0	4.46	5.60	6.98	8.62	10.60					
25.0	4.22	5.31	6.62	8.19	10.05	12.25	13.25			
30.0	3.97	5.01	6.26	7.76	9.53	11.60	12.55	14.05	15.40	16.85
35.0	3.72	4.71	5.90	7.31	8.99	10.95	11.85	13.30	14.60	15.95
40.0	3.46	4.41	5.53	6.86	8.45	10.30	11.15	12.50	13.75	15.05
45.0		4.09	5.15	6.40	7.89	9.65	10.45	11.70	12.85	14.10
50.0		3.78	4.76	5.93	7.32	8.97	9.71	10.90	12.00	13.15
55.0			4.37	5.46	6.75	8.28	8.97	10.10	11.10	12.20
60.0				4.97	6.16	7.58	8.22	9.26	10.20	11.25
65.0				4.47	5.56	6.86	7.45	8.41	9.29	10.25
70.0					4.95	6.13	6.67	7.55	8.36	9.24
75.0					4.33	5.39	5.88	6.67	7.41	8.21

50 Hz

YH11K1E-TFD

R513A

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	1.28	1.33	1.39	1.46	1.54					
20.0	1.35	1.40	1.47	1.54	1.62					
25.0	1.50	1.55	1.61	1.68	1.76	1.84	1.88			
30.0	1.65	1.70	1.77	1.84	1.92	2.00	2.03	2.09	2.14	2.19
35.0	1.82	1.88	1.94	2.01	2.09	2.18	2.21	2.27	2.31	2.36
40.0	2.02	2.07	2.14	2.21	2.29	2.37	2.41	2.46	2.51	2.56
45.0		2.29	2.35	2.42	2.50	2.59	2.62	2.68	2.73	2.78
50.0		2.52	2.58	2.66	2.74	2.82	2.86	2.92	2.97	3.02
55.0			2.84	2.91	2.99	3.08	3.12	3.17	3.22	3.28
60.0				3.19	3.27	3.36	3.40	3.46	3.51	3.56
65.0				3.50	3.58	3.67	3.70	3.76	3.81	3.87
70.0					3.91	4.00	4.04	4.09	4.15	4.20
75.0					4.26	4.36	4.39	4.45	4.51	4.56

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	5.19	5.22	5.26	5.30	5.35					
20.0	5.24	5.27	5.31	5.36	5.41					
25.0	5.33	5.36	5.40	5.45	5.50	5.56	5.59			
30.0	5.43	5.47	5.51	5.56	5.62	5.68	5.71	5.75	5.79	5.82
35.0	5.55	5.59	5.64	5.69	5.75	5.81	5.84	5.89	5.93	5.97
40.0	5.69	5.73	5.78	5.84	5.90	5.97	6.00	6.05	6.09	6.13
45.0		5.90	5.95	6.01	6.08	6.15	6.18	6.23	6.28	6.32
50.0		6.10	6.15	6.21	6.29	6.36	6.40	6.45	6.50	6.55
55.0			6.38	6.45	6.52	6.61	6.64	6.70	6.75	6.80
60.0				6.72	6.80	6.89	6.93	6.98	7.04	7.09
65.0				7.03	7.11	7.21	7.25	7.31	7.37	7.42
70.0					7.47	7.57	7.61	7.68	7.74	7.80
75.0					7.87	7.98	8.02	8.09	8.16	8.22

50 Hz

YH11K1E-TFD

R513A

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	31.00	38.00	46.20	55.90	67.10					
20.0	30.90	37.90	46.10	55.80	67.00					
25.0	30.60	37.70	45.90	55.50	66.60	79.40	85.00			
30.0	30.40	37.40	45.60	55.20	66.20	79.00	84.50	93.50	101.50	110.00
35.0	30.20	37.20	45.40	54.90	65.80	78.40	84.00	92.80	100.50	109.00
40.0	29.90	36.90	45.10	54.50	65.30	77.80	83.30	92.10	100.00	108.50
45.0		36.60	44.70	54.00	64.80	77.20	82.60	91.30	99.10	107.50
50.0		36.30	44.30	53.50	64.20	76.40	81.80	90.50	98.20	106.50
55.0			43.90	53.00	63.50	75.60	80.90	89.50	97.20	105.50
60.0				52.40	62.70	74.70	80.00	88.50	96.10	104.00
65.0				51.70	61.90	73.70	78.90	87.30	94.90	103.00
70.0					61.00	72.60	77.80	86.10	93.60	101.50
75.0					60.00	71.50	76.60	84.90	92.40	100.50

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
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	631
Refrigerant's classification	A1

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