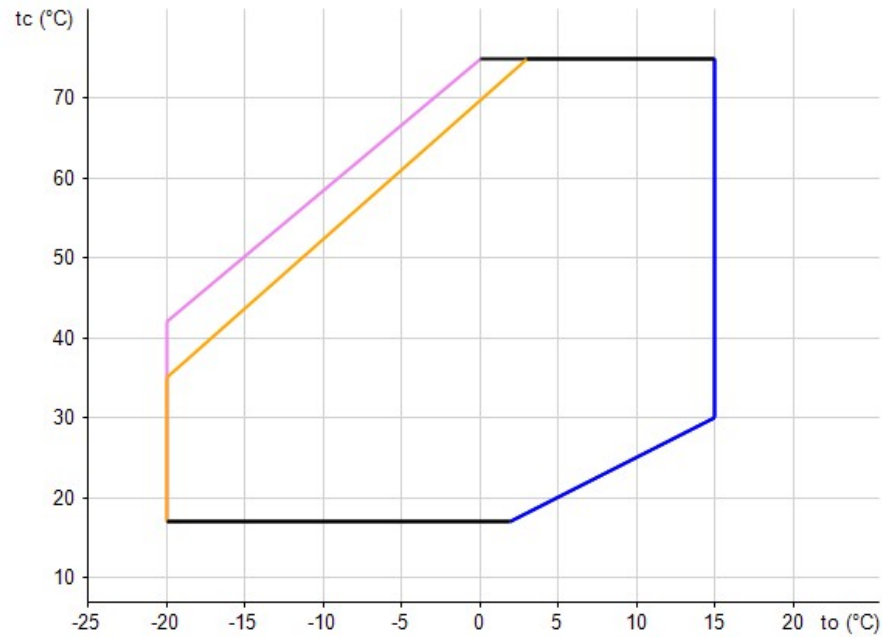




Minimum Evaporating Temp. With:

- 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	5.51	6.90	8.56	10.55	12.90					
20.0	5.33	6.68	8.30	10.25	12.55					
25.0	5.02	6.32	7.87	9.72	11.90	14.45	15.60			
30.0	4.72	5.95	7.43	9.19	11.25	13.70	14.80	16.55	18.15	19.85
35.0	4.41	5.59	6.99	8.66	10.65	12.95	14.00	15.70	17.20	18.80
40.0	4.11	5.22	6.55	8.12	9.99	12.20	13.20	14.75	16.20	17.75
45.0		4.85	6.10	7.58	9.34	11.40	12.35	13.85	15.20	16.70
50.0		4.48	5.64	7.03	8.68	10.65	11.50	12.95	14.20	15.60
55.0			5.18	6.47	8.01	9.83	10.65	12.00	13.20	14.50
60.0				5.90	7.32	9.02	9.78	11.00	12.15	13.40
65.0				5.32	6.63	8.19	8.89	10.05	11.10	12.25
70.0					5.92	7.35	7.99	9.05	10.05	11.10
75.0					5.20	6.49	7.08	8.04	8.94	9.91

50 Hz	YH13K1E-TFD	R513A
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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	1.54	1.60	1.65	1.70	1.74					
20.0	1.62	1.68	1.74	1.80	1.84					
25.0	1.78	1.84	1.91	1.96	2.02	2.08	2.10			
30.0	1.95	2.02	2.09	2.16	2.22	2.28	2.31	2.34	2.37	2.40
35.0	2.14	2.22	2.29	2.37	2.44	2.51	2.54	2.58	2.61	2.64
40.0	2.34	2.43	2.51	2.59	2.68	2.76	2.79	2.84	2.87	2.91
45.0		2.66	2.75	2.84	2.93	3.02	3.06	3.11	3.16	3.20
50.0		2.91	3.01	3.11	3.21	3.31	3.35	3.41	3.47	3.52
55.0			3.28	3.40	3.51	3.62	3.67	3.74	3.80	3.85
60.0				3.70	3.83	3.96	4.01	4.08	4.15	4.22
65.0				4.03	4.17	4.31	4.37	4.45	4.53	4.60
70.0					4.54	4.69	4.75	4.85	4.93	5.01
75.0					4.93	5.09	5.16	5.27	5.36	5.45

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	5.37	5.41	5.45	5.49	5.52					
20.0	5.43	5.47	5.51	5.55	5.59					
25.0	5.54	5.59	5.63	5.68	5.72	5.76	5.77			
30.0	5.67	5.72	5.77	5.82	5.87	5.92	5.94	5.97	6.00	6.02
35.0	5.81	5.87	5.93	6.00	6.06	6.12	6.14	6.18	6.21	6.24
40.0	5.98	6.05	6.12	6.20	6.27	6.35	6.38	6.42	6.46	6.50
45.0		6.25	6.34	6.43	6.51	6.60	6.64	6.70	6.74	6.79
50.0		6.49	6.59	6.69	6.79	6.90	6.94	7.01	7.06	7.12
55.0			6.87	6.98	7.11	7.23	7.28	7.36	7.42	7.49
60.0				7.32	7.46	7.60	7.66	7.75	7.83	7.91
65.0				7.69	7.85	8.02	8.09	8.19	8.28	8.37
70.0					8.29	8.48	8.56	8.68	8.78	8.88
75.0					8.78	8.99	9.08	9.22	9.33	9.45

50 Hz

YH13K1E-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	37.10	45.30	55.10	66.40	79.60					
20.0	36.80	45.10	54.90	66.20	79.30					
25.0	36.50	44.80	54.50	65.80	78.90	93.80	100.50			
30.0	36.10	44.50	54.10	65.40	78.40	93.30	99.80	110.00	119.50	129.50
35.0	35.80	44.10	53.80	64.90	77.90	92.70	99.20	109.50	119.00	128.50
40.0	35.40	43.80	53.40	64.50	77.30	92.00	98.50	109.00	118.00	128.00
45.0		43.40	53.00	64.00	76.70	91.30	97.80	108.00	117.50	127.00
50.0		43.00	52.50	63.40	76.10	90.60	97.00	107.00	116.50	126.00
55.0			52.00	62.80	75.30	89.80	96.10	106.50	115.50	125.00
60.0				62.20	74.60	88.90	95.20	105.50	114.50	124.00
65.0				61.50	73.70	87.90	94.20	104.50	113.50	123.00
70.0					72.90	86.90	93.20	103.50	112.50	122.00
75.0					72.00	86.00	92.20	102.50	111.50	121.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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
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	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

50 Hz

YH13K1E-TFD

R513A

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