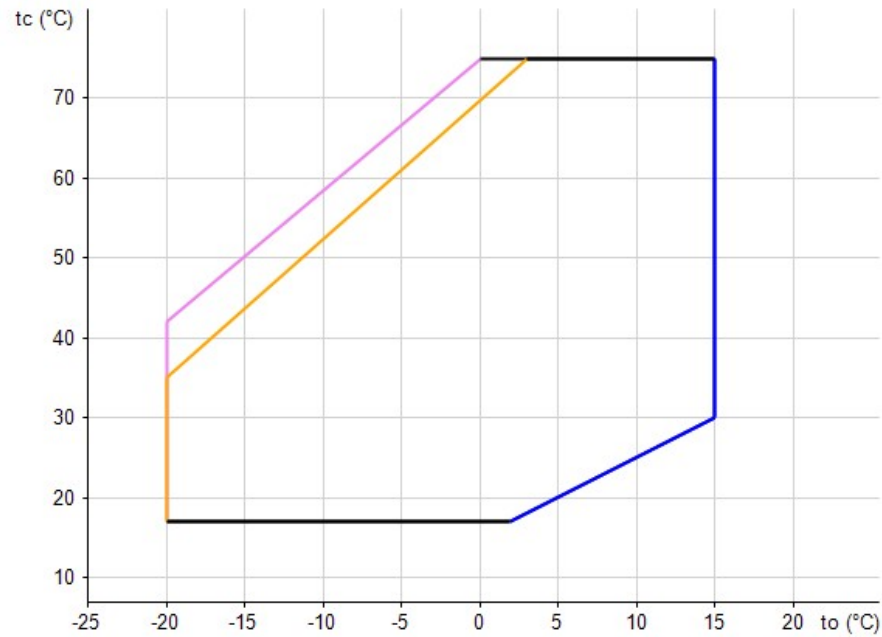


50 Hz

YH16K1E-TFD

R513A



Minimum Evaporating Temp. With:

- 10 K Suction Superheat — 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

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	7.45	9.32	11.55	14.25	17.45					
20.0	7.24	9.06	11.25	13.90	17.00					
25.0	6.87	8.63	10.75	13.25	16.25	19.75	21.30			
30.0	6.50	8.19	10.20	12.60	15.50	18.85	20.30	22.70	24.90	27.30
35.0	6.13	7.75	9.67	11.95	14.70	17.90	19.30	21.60	23.70	25.90
40.0	5.76	7.30	9.13	11.30	13.90	16.90	18.30	20.50	22.50	24.60
45.0		6.84	8.57	10.60	13.05	15.95	17.25	19.30	21.20	23.20
50.0		6.38	8.00	9.93	12.25	14.95	16.15	18.15	19.95	21.90
55.0			7.43	9.23	11.40	13.95	15.05	16.95	18.60	20.40
60.0				8.52	10.50	12.90	13.95	15.70	17.30	19.00
65.0				7.80	9.65	11.85	12.85	14.45	15.95	17.60
70.0					8.76	10.80	11.70	13.25	14.60	16.10
75.0					7.88	9.73	10.60	11.95	13.25	14.65

50 Hz		YH16K1E-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	1.91	1.99	2.08	2.19	2.30						
20.0	2.03	2.11	2.20	2.30	2.42						
25.0	2.24	2.32	2.41	2.52	2.63	2.76	2.81				
30.0	2.47	2.56	2.65	2.76	2.87	3.00	3.05	3.13	3.20	3.28	
35.0	2.74	2.82	2.91	3.02	3.13	3.26	3.32	3.40	3.47	3.54	
40.0	3.02	3.11	3.20	3.31	3.43	3.55	3.61	3.69	3.77	3.84	
45.0		3.43	3.52	3.63	3.75	3.88	3.93	4.02	4.09	4.17	
50.0		3.78	3.87	3.98	4.10	4.23	4.29	4.37	4.45	4.52	
55.0			4.26	4.37	4.49	4.62	4.67	4.76	4.83	4.91	
60.0				4.79	4.91	5.04	5.10	5.18	5.26	5.34	
65.0				5.24	5.36	5.50	5.55	5.64	5.72	5.80	
70.0					5.86	5.99	6.05	6.14	6.22	6.30	
75.0					6.39	6.53	6.59	6.68	6.75	6.83	

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	5.23	5.30	5.38	5.47	5.58					
20.0	5.33	5.40	5.48	5.58	5.69					
25.0	5.52	5.60	5.69	5.79	5.91	6.03	6.09			
30.0	5.74	5.83	5.92	6.03	6.15	6.29	6.35	6.44	6.52	6.60
35.0	6.01	6.10	6.20	6.31	6.44	6.58	6.64	6.74	6.82	6.91
40.0	6.32	6.41	6.52	6.64	6.77	6.92	6.98	7.08	7.17	7.26
45.0		6.77	6.88	7.01	7.15	7.30	7.37	7.47	7.56	7.65
50.0		7.18	7.30	7.43	7.58	7.74	7.80	7.91	8.00	8.10
55.0			7.77	7.91	8.06	8.22	8.29	8.40	8.50	8.60
60.0				8.44	8.60	8.77	8.84	8.96	9.06	9.16
65.0				9.04	9.20	9.38	9.45	9.57	9.67	9.78
70.0					9.87	10.05	10.13	10.25	10.36	10.47
75.0					10.61	10.80	10.88	11.00	11.11	11.23

50 Hz

YH16K1E-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	46.30	56.70	69.00	83.40	100.00					
20.0	46.10	56.50	68.80	83.10	99.80					
25.0	45.70	56.20	68.50	82.80	99.30	118.50	127.00			
30.0	45.40	55.90	68.10	82.30	98.80	117.50	126.00	139.50	151.00	164.00
35.0	45.00	55.50	67.70	81.80	98.20	117.00	125.00	138.50	150.50	163.00
40.0	44.60	55.10	67.20	81.20	97.40	116.00	124.50	137.50	149.00	161.50
45.0		54.70	66.70	80.50	96.60	115.00	123.50	136.50	148.00	160.50
50.0		54.20	66.10	79.80	95.70	114.00	122.00	135.00	146.50	159.00
55.0			65.40	79.00	94.60	112.50	120.50	133.50	145.00	157.50
60.0				78.00	93.50	111.50	119.50	132.00	143.50	155.50
65.0				77.00	92.20	110.00	117.50	130.50	141.50	154.00
70.0					90.80	108.00	116.00	128.50	139.50	152.00
75.0					89.50	106.50	114.00	126.50	138.00	150.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	21.4
Length/Width, mm	255/261
Height, mm	442
Net Weight, kg	43.5
Stub Suction, inch	7/8
Stub Discharge, inch	3.4
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	68
Sound Power (MT), dBA	79
Sound Power with Sound Shell (MT), dBA	70
Sound Conditions (MT, Temperatures:	-10 / 45 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
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	15.9
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED
ACCESSORIES OPTIONAL

50 Hz

YH16K1E-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