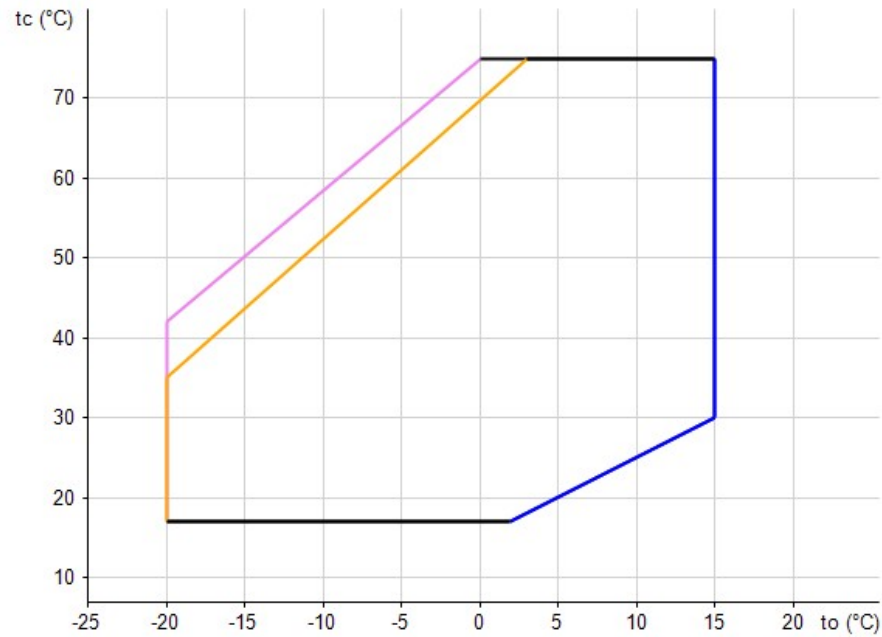




Minimum Evaporating Temp. With:

- 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	6.89	8.62	10.70	13.15	16.10					
20.0	6.71	8.41	10.45	12.85	15.70					
25.0	6.41	8.05	10.00	12.35	15.10	18.30	19.75			
30.0	6.10	7.69	9.59	11.85	14.50	17.60	18.95	21.20	23.20	25.30
35.0	5.80	7.33	9.15	11.30	13.90	16.85	18.20	20.30	22.30	24.30
40.0	5.49	6.96	8.71	10.80	13.25	16.10	17.40	19.45	21.30	23.30
45.0		6.59	8.27	10.25	12.60	15.35	16.60	18.55	20.40	22.30
50.0		6.21	7.81	9.72	11.95	14.60	15.80	17.70	19.40	21.20
55.0			7.36	9.17	11.30	13.85	14.95	16.80	18.40	20.20
60.0				8.62	10.65	13.05	14.15	15.85	17.45	19.15
65.0				8.06	9.99	12.25	13.30	14.95	16.45	18.10
70.0					9.32	11.50	12.45	14.05	15.45	17.00
75.0					8.66	10.70	11.65	13.15	14.50	15.95

50 Hz		YH16K1E-TFD								R134a
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	1.82	1.88	1.92	1.96	2.00					
20.0	1.94	1.99	2.04	2.09	2.13					
25.0	2.12	2.19	2.26	2.31	2.36	2.41	2.42			
30.0	2.31	2.40	2.48	2.55	2.61	2.67	2.69	2.71	2.74	2.75
35.0	2.52	2.62	2.71	2.79	2.87	2.94	2.97	3.01	3.04	3.06
40.0	2.73	2.84	2.95	3.06	3.15	3.24	3.27	3.32	3.36	3.39
45.0		3.09	3.22	3.34	3.45	3.56	3.60	3.66	3.70	3.75
50.0		3.35	3.50	3.64	3.77	3.90	3.95	4.02	4.07	4.13
55.0			3.80	3.96	4.12	4.26	4.32	4.41	4.47	4.54
60.0				4.31	4.49	4.66	4.72	4.82	4.90	4.98
65.0				4.69	4.89	5.08	5.16	5.27	5.36	5.45
70.0					5.32	5.54	5.63	5.76	5.86	5.96
75.0					5.78	6.03	6.13	6.28	6.40	6.51

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	5.66	5.69	5.72	5.74	5.75					
20.0	5.72	5.76	5.79	5.81	5.84					
25.0	5.83	5.88	5.92	5.97	6.00	6.03	6.04			
30.0	5.96	6.03	6.09	6.15	6.20	6.25	6.26	6.29	6.30	6.32
35.0	6.12	6.20	6.28	6.36	6.43	6.50	6.53	6.56	6.59	6.62
40.0	6.30	6.41	6.51	6.61	6.71	6.80	6.83	6.88	6.92	6.96
45.0		6.64	6.77	6.90	7.02	7.14	7.19	7.25	7.31	7.36
50.0		6.92	7.08	7.23	7.38	7.53	7.59	7.67	7.74	7.81
55.0			7.42	7.61	7.79	7.97	8.04	8.15	8.23	8.31
60.0				8.03	8.25	8.46	8.55	8.67	8.78	8.88
65.0				8.50	8.76	9.01	9.11	9.26	9.39	9.51
70.0					9.33	9.62	9.74	9.91	10.06	10.20
75.0					9.95	10.29	10.43	10.63	10.80	10.96

50 Hz

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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	37.50	46.10	56.20	68.10	81.70					
20.0	37.40	46.00	56.20	68.00	81.70					
25.0	37.20	45.80	56.00	67.80	81.50	97.10	104.00			
30.0	36.90	45.60	55.80	67.60	81.30	97.00	104.00	114.50	124.50	135.00
35.0	36.70	45.40	55.60	67.40	81.10	96.80	103.50	114.50	124.50	134.50
40.0	36.40	45.20	55.40	67.20	80.90	96.50	103.50	114.50	124.00	134.50
45.0		44.90	55.10	67.00	80.60	96.30	103.00	114.00	124.00	134.50
50.0		44.70	54.90	66.70	80.40	96.00	103.00	114.00	123.50	134.00
55.0			54.60	66.40	80.10	95.80	102.50	113.50	123.50	134.00
60.0				66.20	79.80	95.50	102.50	113.50	123.50	134.00
65.0				65.90	79.60	95.40	102.50	113.50	123.50	134.00
70.0					79.40	95.30	102.00	113.50	123.50	134.00
75.0					79.40	95.40	102.50	114.00	124.00	135.00

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	1430
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

R134a

MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04