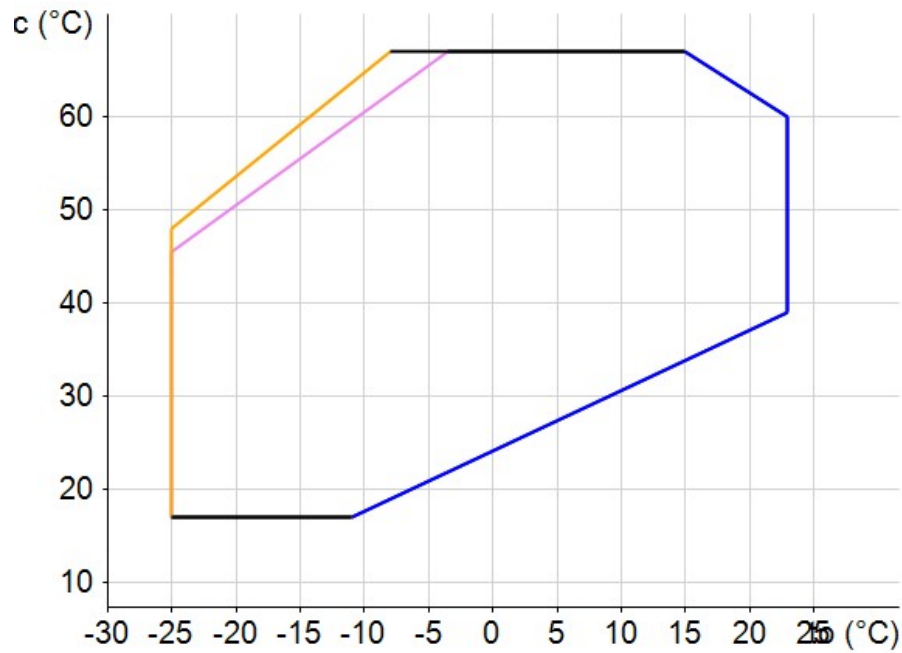




Minimum Evaporating Temp. With:

- 10 K Suction Superheat — 5 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	7.93	10.00	12.50									
20.0	7.70	9.74	12.20	15.15								
25.0	7.31	9.29	11.70	14.55	17.90	21.80						
30.0	6.91	8.84	11.15	13.90	17.15	21.00	25.40	27.30				
35.0	6.50	8.37	10.60	13.25	16.40	20.10	24.30	26.20	29.20	31.90	34.80	
40.0	6.10	7.89	10.05	12.60	15.60	19.10	23.20	25.00	27.90	30.50	33.30	39.40
45.0	5.69	7.41	9.45	11.90	14.75	18.15	22.00	23.80	26.60	29.10	31.80	37.70
50.0		6.91	8.85	11.15	13.90	17.10	20.90	22.50	25.20	27.60	30.20	35.80
55.0			8.24	10.40	13.00	16.05	19.60	21.20	23.70	26.00	28.50	33.90
60.0				9.67	12.10	14.95	18.35	19.85	22.30	24.50	26.80	32.00
65.0					11.15	13.85	17.05	18.45	20.80	22.80	25.10	
67.0						13.40	16.50	17.90	20.10	22.20	24.40	

50 Hz

YH16K1E-TFD

R407C Dew Point

Cond °C	Power, kW											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	2.49	2.59	2.69									
20.0	2.65	2.76	2.87	2.99								
25.0	2.94	3.07	3.18	3.29	3.43	3.61						
30.0	3.24	3.40	3.52	3.64	3.76	3.92	4.12	4.22				
35.0	3.56	3.74	3.89	4.02	4.15	4.29	4.47	4.56	4.70	4.84	5.01	
40.0	3.88	4.11	4.29	4.44	4.58	4.72	4.88	4.96	5.09	5.21	5.35	5.69
45.0	4.21	4.50	4.72	4.90	5.05	5.20	5.35	5.42	5.54	5.65	5.77	6.08
50.0		4.90	5.18	5.39	5.57	5.73	5.89	5.96	6.07	6.17	6.28	6.55
55.0			5.66	5.92	6.13	6.32	6.49	6.56	6.66	6.76	6.86	7.11
60.0				6.48	6.74	6.95	7.14	7.22	7.33	7.42	7.52	7.75
65.0					7.38	7.64	7.86	7.94	8.06	8.16	8.26	
67.0						7.93	8.16	8.25	8.37	8.48	8.58	

Cond °C	Current at 400 V, A											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	6.15	6.22	6.29									
20.0	6.26	6.35	6.43	6.53								
25.0	6.49	6.61	6.72	6.83	6.98	7.17						
30.0	6.77	6.95	7.08	7.21	7.36	7.54	7.79	7.91				
35.0	7.11	7.34	7.52	7.67	7.82	8.00	8.23	8.34	8.52	8.71	8.92	
40.0	7.48	7.78	8.01	8.20	8.37	8.55	8.76	8.86	9.03	9.20	9.38	9.84
45.0	7.90	8.27	8.56	8.79	8.99	9.18	9.39	9.49	9.64	9.79	9.96	10.37
50.0		8.80	9.16	9.45	9.68	9.90	10.11	10.20	10.35	10.49	10.64	11.01
55.0			9.81	10.16	10.44	10.68	10.91	11.00	11.15	11.28	11.42	11.75
60.0				10.92	11.25	11.54	11.79	11.89	12.04	12.16	12.30	12.61
65.0					12.12	12.45	12.74	12.85	13.00	13.13	13.27	
67.0						12.84	13.14	13.25	13.41	13.54	13.68	

50 Hz

YH16K1E-TFD

R407C Dew Point

Cond °C	Suction Mass Flow, g/s											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	39.50	49.10	60.50									
20.0	39.20	48.80	60.30	73.80								
25.0	38.70	48.40	60.00	73.50	89.30	107.50						
30.0	38.10	47.90	59.50	73.20	89.00	107.00	128.00	137.00				
35.0	37.40	47.40	59.00	72.70	88.50	106.50	127.50	136.50	151.00	164.00	178.00	
40.0	36.80	46.80	58.40	72.10	87.90	106.00	127.00	136.00	150.50	163.50	177.50	207.00
45.0	36.10	46.10	57.80	71.40	87.20	105.50	126.00	135.50	150.00	163.00	177.00	207.00
50.0		45.30	57.00	70.60	86.30	104.50	125.50	134.50	149.00	162.00	176.00	206.00
55.0			56.10	69.60	85.30	103.50	124.50	133.50	148.00	161.00	175.00	205.00
60.0				68.60	84.20	102.50	123.00	132.00	147.00	160.00	174.00	205.00
65.0					83.00	101.00	122.00	131.00	145.50	159.00	173.00	
67.0						100.50	121.50	130.50	145.50	158.50	172.50	

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	1774
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
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