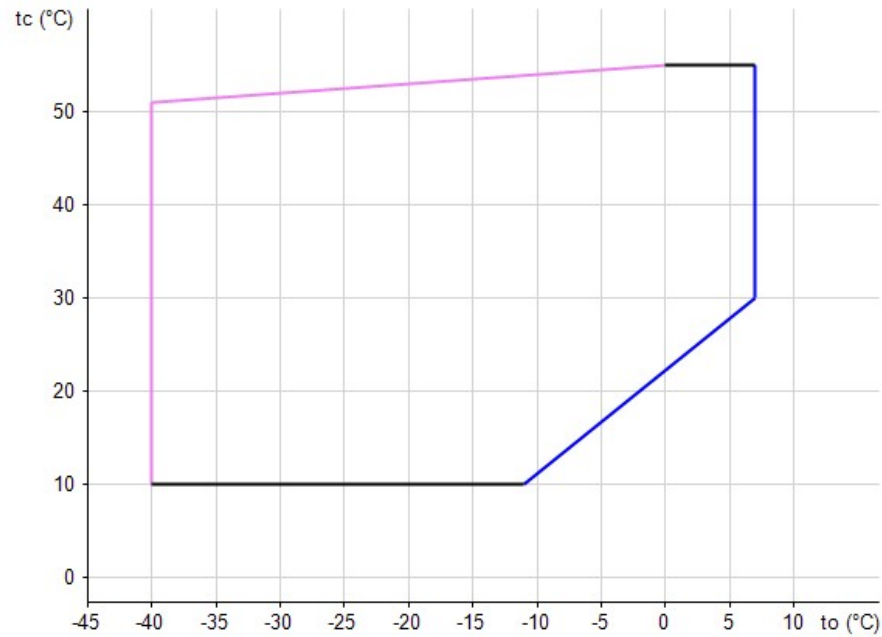


50 Hz

YF05K1E-TFD

R407F Dew Point



Minimum Evaporating Temp. With:

20 °C Suction Gas Return Liquid injection

Maximum Evaporating Temperature

Suction Return Temperature 10.0°C

Liquid Subcooling 2.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	1.30	1.62	2.03	2.52	3.12	3.83					
15.0	1.26	1.58	1.98	2.46	3.04	3.73	4.54				
20.0	1.21	1.53	1.92	2.39	2.95	3.62	4.40	5.32			
25.0	1.16	1.47	1.84	2.30	2.85	3.49	4.25	5.13	6.15		
30.0	1.10	1.40	1.76	2.21	2.73	3.35	4.08	4.93	5.91	7.04	
35.0	1.02	1.32	1.68	2.10	2.60	3.19	3.89	4.71	5.65	6.74	
40.0	0.95	1.24	1.57	1.98	2.45	3.02	3.69	4.46	5.37	6.41	
45.0	0.86	1.13	1.46	1.84	2.29	2.83	3.46	4.20	5.06	6.06	
50.0	0.76	1.02	1.32	1.68	2.11	2.62	3.22	3.92	4.74	5.68	
55.0									4.39	5.29	

50 Hz

YF05K1E-TFD

R407F Dew Point

Cond °C	Power, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	0.58	0.62	0.67	0.73	0.81	0.90					
15.0	0.65	0.69	0.74	0.79	0.86	0.95	1.06				
20.0	0.73	0.77	0.81	0.86	0.93	1.02	1.12	1.24			
25.0	0.83	0.86	0.90	0.95	1.02	1.09	1.19	1.30	1.44		
30.0	0.94	0.97	1.00	1.05	1.11	1.18	1.28	1.39	1.52	1.68	
35.0	1.08	1.10	1.12	1.16	1.22	1.29	1.38	1.48	1.62	1.76	
40.0	1.24	1.25	1.28	1.31	1.36	1.42	1.50	1.60	1.72	1.87	
45.0	1.42	1.43	1.44	1.48	1.52	1.58	1.65	1.74	1.86	2.00	
50.0	1.64	1.64	1.65	1.67	1.70	1.76	1.82	1.91	2.02	2.15	
55.0									2.20	2.33	

Cond °C	Current at 400 V, A										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	1.34	1.46	1.58	1.71	1.85	2.00					
15.0	1.53	1.63	1.74	1.85	1.97	2.11	2.26				
20.0	1.72	1.80	1.89	1.98	2.09	2.22	2.36	2.52			
25.0	1.91	1.97	2.04	2.12	2.22	2.33	2.45	2.60	2.77		
30.0	2.10	2.14	2.20	2.27	2.35	2.45	2.56	2.70	2.86	3.05	
35.0	2.30	2.33	2.37	2.43	2.49	2.58	2.69	2.82	2.97	3.16	
40.0	2.52	2.54	2.56	2.60	2.66	2.74	2.84	2.96	3.11	3.28	
45.0	2.76	2.76	2.78	2.81	2.86	2.92	3.01	3.13	3.27	3.45	
50.0	3.03	3.02	3.02	3.04	3.08	3.14	3.23	3.34	3.47	3.64	
55.0									3.72	3.88	

Cond °C	Suction Mass Flow, g/s										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	5.61	7.04	8.83	11.00	13.70	16.90					
15.0	5.61	7.08	8.89	11.10	13.80	17.05	20.90				
20.0	5.59	7.09	8.92	11.15	13.85	17.10	21.00	25.60			
25.0	5.54	7.06	8.91	11.15	13.85	17.15	21.00	25.60	31.10		
30.0	5.45	6.99	8.86	11.10	13.85	17.10	21.00	25.60	31.10	37.60	
35.0	5.32	6.87	8.75	11.00	13.70	17.00	20.90	25.50	31.00	37.60	
40.0	5.13	6.70	8.57	10.85	13.55	16.80	20.70	25.30	30.90	37.50	
45.0	4.87	6.45	8.32	10.55	13.25	16.50	20.40	25.10	30.60	37.20	
50.0	4.52	6.11	7.97	10.20	12.90	16.10	20.00	24.70	30.20	36.90	
55.0									29.70	36.50	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	5.92
Length/Width, mm	253/248
Height, mm	369
Net Weight, kg	25.4
Gross Weight, kg	27.3
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Stub Injection, inch	3/8
Oil Quantity, l	1.3
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190.5 x 190.5 (19)
Sound Pressure @ 1m (LT), dBA	58
Sound Power (LT), dBA	69
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	II
Max. Low Side Internal Free Volume, l	4.1
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	4.60
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	1825
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	5
Locked Rotor Current, A	26
Winding Resistance, ohm	7.1
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED**ACCESSORIES OPTIONAL**

50 Hz

YF05K1E-TFD

R407F Dew Point

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