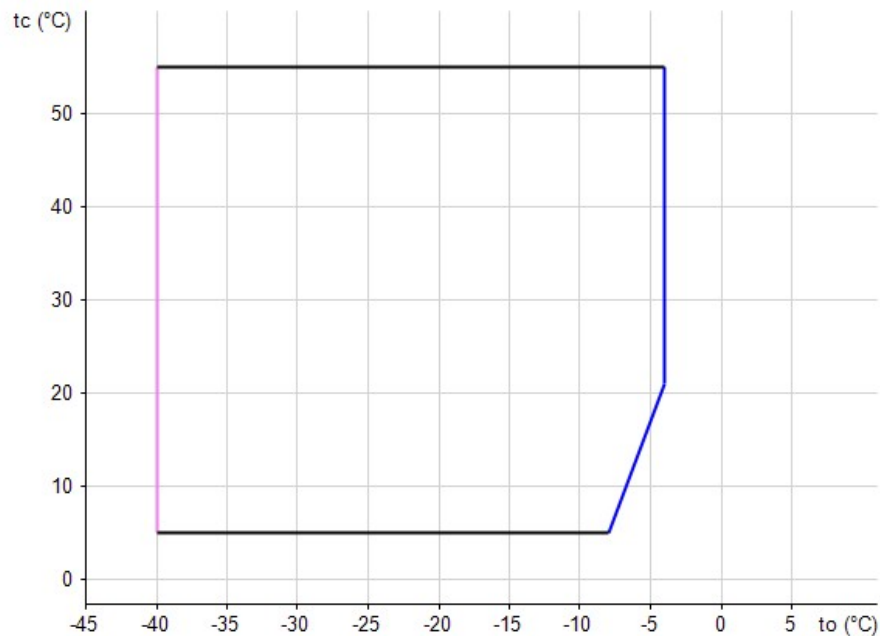




Minimum Evaporating Temp. With:

20 °C Suction Gas Return ASERCOM certified Liquid injection

Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	1.64	2.14	2.75	3.49	4.39	5.44	6.68	
10.0	1.59	2.07	2.65	3.37	4.22	5.23	6.42	
15.0	1.54	2.00	2.56	3.24	4.06	5.03	6.16	
20.0	1.49	1.94	2.47	3.12	3.90	4.82	5.90	7.17
25.0	1.44	1.87	2.38	3.00	3.74	4.62	5.65	6.85
30.0	1.40	1.80	2.29	2.88	3.58	4.41	5.39	6.54
35.0	1.34	1.73	2.20	2.75	3.42	4.20	5.13	6.22
40.0	1.28	1.66	2.10	2.62	3.25	3.99	4.87	5.90
45.0	1.22	1.58	1.99	2.49	3.08	3.78	4.60	5.58
50.0	1.15	1.48	1.88	2.34	2.90	3.55	4.33	5.24
55.0	1.07	1.39	1.76	2.19	2.71	3.32	4.05	4.90

50 Hz

ZF09K4E-TFD

R449A Dew Point

Cond °C	Power, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	0.78	0.82	0.87	0.94	1.03	1.14	1.28	
10.0	0.85	0.89	0.94	1.02	1.11	1.22	1.35	
15.0	0.92	0.96	1.02	1.09	1.18	1.30	1.42	
20.0	0.99	1.03	1.09	1.16	1.26	1.36	1.50	1.64
25.0	1.07	1.12	1.18	1.25	1.34	1.44	1.57	1.72
30.0	1.16	1.21	1.27	1.34	1.43	1.54	1.66	1.80
35.0	1.28	1.32	1.38	1.46	1.54	1.64	1.76	1.89
40.0	1.42	1.46	1.52	1.58	1.67	1.76	1.88	2.00
45.0	1.58	1.63	1.68	1.75	1.82	1.92	2.02	2.14
50.0	1.78	1.83	1.88	1.94	2.01	2.10	2.19	2.31
55.0	2.03	2.07	2.11	2.17	2.24	2.31	2.40	2.51

Cond °C	Current at 400 V, A							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	3.04	3.06	3.09	3.13	3.18	3.24	3.31	
10.0	3.07	3.10	3.13	3.18	3.24	3.31	3.40	
15.0	3.10	3.14	3.18	3.23	3.30	3.38	3.47	
20.0	3.14	3.18	3.22	3.28	3.35	3.44	3.54	3.66
25.0	3.19	3.23	3.27	3.34	3.41	3.50	3.61	3.74
30.0	3.25	3.29	3.34	3.41	3.49	3.58	3.69	3.82
35.0	3.34	3.38	3.43	3.50	3.58	3.68	3.79	3.92
40.0	3.47	3.50	3.55	3.62	3.70	3.80	3.91	4.05
45.0	3.63	3.66	3.71	3.77	3.85	3.95	4.06	4.20
50.0	3.83	3.86	3.91	3.97	4.04	4.14	4.25	4.38
55.0	4.09	4.12	4.15	4.21	4.28	4.37	4.48	4.61

50 Hz

ZF09K4E-TFD

R449A Dew Point

Cond °C	Suction Mass Flow, g/s							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	7.31	9.55	12.30	15.70	19.80	24.70	30.40	
10.0	7.31	9.54	12.30	15.65	19.70	24.50	30.20	
15.0	7.33	9.55	12.30	15.60	19.60	24.40	30.10	
20.0	7.37	9.58	12.30	15.55	19.55	24.30	29.90	36.60
25.0	7.41	9.62	12.30	15.55	19.50	24.20	29.80	36.40
30.0	7.46	9.67	12.35	15.55	19.45	24.10	29.60	36.20
35.0	7.50	9.71	12.35	15.55	19.40	24.00	29.50	36.10
40.0	7.53	9.74	12.40	15.55	19.35	23.90	29.40	35.90
45.0	7.53	9.75	12.40	15.50	19.30	23.80	29.30	35.80
50.0	7.50	9.74	12.35	15.50	19.25	23.70	29.20	35.70
55.0	7.41	9.67	12.30	15.40	19.15	23.60	29.10	35.60

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	8.03
Length/Width, mm	243/244
Height, mm	391
Net Weight, kg	27
Gross Weight, kg	30
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.5
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 x 190 (8.5)
Sound Pressure @ 1m (LT), dBA	62
Sound Power (LT), dBA	73
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	4.10
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	6
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Current Sensing Relay	External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09