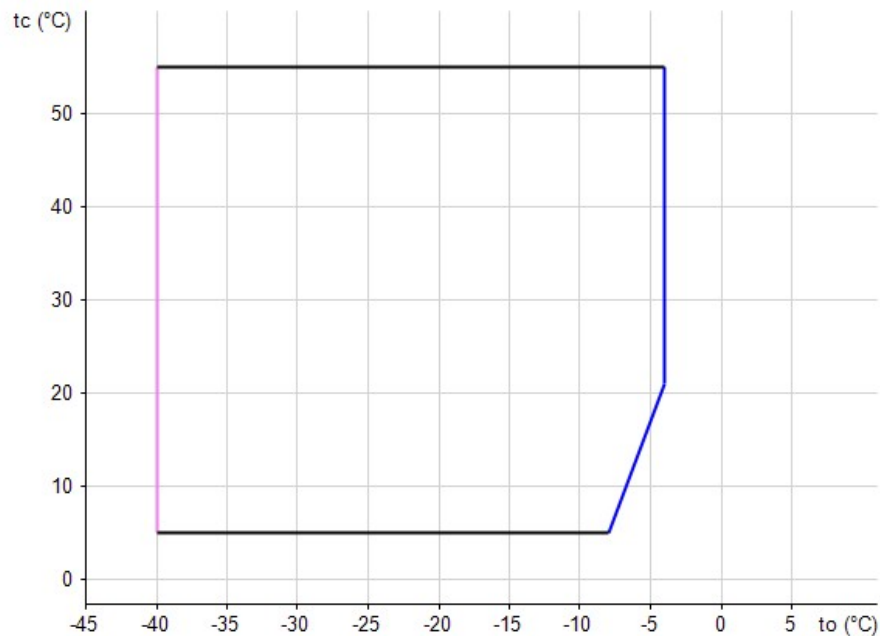




Minimum Evaporating Temp. With:

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	2.46	3.12	3.93	4.92	6.10	7.49	9.11	
10.0	2.40	3.05	3.85	4.82	5.97	7.32	8.91	
15.0	2.33	2.97	3.76	4.70	5.82	7.14	8.67	
20.0	2.25	2.88	3.65	4.56	5.65	6.92	8.42	10.15
25.0	2.17	2.78	3.52	4.41	5.46	6.69	8.13	9.80
30.0	2.07	2.67	3.38	4.24	5.25	6.43	7.82	9.42
35.0	1.98	2.55	3.23	4.05	5.02	6.15	7.48	9.02
40.0	1.87	2.42	3.07	3.85	4.77	5.85	7.12	8.59
45.0	1.76	2.27	2.89	3.63	4.50	5.53	6.73	8.14
50.0	1.64	2.12	2.70	3.39	4.21	5.18	6.32	7.65
55.0	1.51	1.96	2.50	3.14	3.91	4.81	5.89	7.14

50 Hz

ZF13K4E-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	0.99	1.04	1.08	1.12	1.16	1.22	1.29	
10.0	1.11	1.18	1.24	1.29	1.36	1.43	1.52	
15.0	1.22	1.30	1.37	1.44	1.52	1.61	1.72	
20.0	1.34	1.42	1.50	1.58	1.68	1.78	1.90	2.04
25.0	1.46	1.55	1.64	1.73	1.83	1.94	2.07	2.22
30.0	1.60	1.70	1.80	1.89	1.99	2.11	2.24	2.40
35.0	1.78	1.88	1.97	2.07	2.17	2.29	2.43	2.59
40.0	2.00	2.09	2.18	2.28	2.38	2.50	2.63	2.80
45.0	2.27	2.35	2.44	2.53	2.62	2.74	2.87	3.03
50.0	2.60	2.68	2.75	2.83	2.92	3.02	3.15	3.30
55.0	3.00	3.06	3.12	3.19	3.27	3.36	3.47	3.62

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	3.07	3.10	3.13	3.16	3.20	3.27	
10.0	3.13	3.18	3.23	3.28	3.34	3.40	3.49	
15.0	3.21	3.29	3.35	3.42	3.49	3.58	3.70	
20.0	3.31	3.39	3.47	3.55	3.64	3.75	3.88	4.04
25.0	3.42	3.51	3.60	3.70	3.80	3.92	4.07	4.24
30.0	3.56	3.66	3.76	3.86	3.97	4.11	4.26	4.45
35.0	3.75	3.85	3.95	4.06	4.18	4.32	4.48	4.68
40.0	4.00	4.10	4.20	4.31	4.43	4.57	4.74	4.94
45.0	4.31	4.41	4.51	4.61	4.73	4.87	5.04	5.25
50.0	4.71	4.80	4.89	4.99	5.11	5.24	5.41	5.61
55.0	5.21	5.28	5.36	5.45	5.56	5.69	5.85	6.05

50 Hz

ZF13K4E-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	10.95	13.95	17.60	22.10	27.50	33.90	41.50	
10.0	11.05	14.10	17.85	22.40	27.80	34.30	42.00	
15.0	11.10	14.20	18.00	22.60	28.10	34.60	42.30	
20.0	11.15	14.30	18.15	22.80	28.30	34.90	42.60	51.70
25.0	11.15	14.35	18.20	22.90	28.40	35.00	42.90	52.00
30.0	11.10	14.35	18.25	22.90	28.50	35.10	43.00	52.20
35.0	11.05	14.30	18.20	22.90	28.50	35.10	43.00	52.30
40.0	10.95	14.20	18.10	22.80	28.40	35.10	43.00	52.30
45.0	10.85	14.10	17.95	22.60	28.20	34.90	42.80	52.20
50.0	10.65	13.90	17.75	22.40	28.00	34.60	42.60	52.10
55.0	10.45	13.65	17.50	22.10	27.60	34.30	42.30	51.80

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	11.7
Length/Width, mm	246/251
Height, mm	442
Net Weight, kg	38
Gross Weight, kg	41
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
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	65
Sound Power (LT), dBA	76
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	6.10
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	8
Locked Rotor Current, A	51.5
Winding Resistance, ohm	3.64
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