



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return Liquid injection
- █ Maximum Evaporating Temperature

Suction Return Temperature 20.0°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
4.0	13.45	17.00	21.30	26.40	32.50	39.50
5.0	13.40	16.90	21.20	26.30	32.30	39.30
10.0	12.75	16.15	20.20	25.10	30.80	37.40
15.0	12.15	15.40	19.30	23.90	29.30	35.60
20.0	11.55	14.65	18.35	22.70	27.90	33.80
25.0	10.95	13.90	17.40	21.50	26.40	32.00
30.0	10.35	13.15	16.45	20.30	24.90	30.10
35.0	9.73	12.35	15.45	19.10	23.30	28.20
40.0	9.09	11.55	14.45	17.85	21.80	26.30
45.0	8.44	10.75	13.40	16.55	20.20	24.40
50.0	7.76	9.89	12.35	15.25	18.55	22.40
54.4	7.13	9.12	11.40	14.05	17.10	20.70

50 Hz

ZF54K5E-TFD

R404A Dew Point

Cond °C	Power, kW					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	5.05	5.45	5.77	6.01	6.20	6.33
5.0	5.09	5.51	5.85	6.10	6.30	6.46
10.0	5.49	6.00	6.44	6.83	7.19	7.52
15.0	5.86	6.43	6.97	7.47	7.96	8.45
20.0	6.22	6.84	7.45	8.04	8.64	9.27
25.0	6.61	7.26	7.91	8.58	9.27	10.00
30.0	7.06	7.71	8.39	9.10	9.87	10.70
35.0	7.60	8.23	8.91	9.66	10.45	11.35
40.0	8.25	8.85	9.51	10.25	11.10	12.05
45.0	9.05	9.59	10.20	10.95	11.80	12.80
50.0	10.05	10.50	11.05	11.75	12.60	13.55
54.4	11.05	11.45	11.95	12.55	13.40	14.35

Cond °C	Current at 400 V, A					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	15.14	15.19	15.24	15.29	15.34	15.41
5.0	15.15	15.21	15.27	15.34	15.42	15.51
10.0	15.17	15.35	15.56	15.79	16.05	16.35
15.0	15.23	15.52	15.85	16.23	16.65	17.12
20.0	15.35	15.72	16.16	16.66	17.23	17.86
25.0	15.55	16.00	16.52	17.12	17.81	18.59
30.0	15.87	16.36	16.94	17.63	18.42	19.32
35.0	16.31	16.83	17.46	18.22	19.10	20.10
40.0	16.91	17.44	18.10	18.90	19.84	20.93
45.0	17.70	18.21	18.88	19.71	20.70	21.85
50.0	18.68	19.17	19.83	20.66	21.68	22.87
54.4	19.74	20.18	20.81	21.64	22.66	23.88

Cond °C	Suction Mass Flow, g/s					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	71.70	90.90	114.50	142.50	175.50	215.00
5.0	71.60	90.80	114.00	142.50	175.50	215.00
10.0	71.10	90.20	113.50	141.50	174.00	213.00
15.0	70.50	89.60	112.50	140.50	173.00	211.00
20.0	70.00	89.00	112.00	139.50	171.50	210.00
25.0	69.60	88.50	111.50	138.50	170.50	208.00
30.0	69.10	88.00	110.50	137.50	169.00	206.00
35.0	68.60	87.40	110.00	136.50	168.00	205.00
40.0	68.10	86.90	109.00	135.50	166.50	203.00
45.0	67.50	86.20	108.50	134.50	165.00	201.00
50.0	66.80	85.50	107.50	133.00	163.50	199.50
54.4	66.10	84.90	107.00	132.50	162.50	198.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	48.3
Length/Width, mm	280/280
Height, mm	552
Net Weight, kg	66.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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 (0.0)
Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	31
Locked Rotor Current, A	168
Winding Resistance, ohm	0.78
Default Enclosure Class	IP 54 (IEC 34)

50 Hz

ZF54K5E-TFD

R404A Dew Point

ACCESSORIES INCLUDED

Discharge Temperature Protection
Mounting Grommets

Discharge line thermostat
Standard

ACCESSORIES OPTIONAL

Crankcase Heater
Liquid Injection
Oil Control System
Sound Attenuation
Rotalock valves

93 W External
DTC Valve
ALCO Trax-Oil OM3
Sound Shell
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
TFC	200-240 V / 3~ / 50 Hz	200		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TFC	208-230 V / 3~ / 60 Hz	220		Y	2.18