



Minimum Evaporating Temp. With:

20 °C Suction Gas Return Liquid injection

Maximum Evaporating Temperature | Voltage limit -5% above -12°C

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	-10.0	-5.0
4.0	11.70	14.60	18.20	22.50	27.60	33.60	40.50	
5.0	11.65	14.55	18.10	22.40	27.50	33.40	40.30	
10.0	11.15	14.00	17.45	21.60	26.50	32.20	38.70	46.30
15.0	10.70	13.40	16.75	20.70	25.40	30.80	37.10	44.30
20.0	10.20	12.80	16.00	19.75	24.20	29.40	35.40	42.30
25.0	9.66	12.20	15.20	18.80	23.00	27.90	33.60	40.20
30.0	9.12	11.50	14.40	17.75	21.70	26.40	31.80	37.90
35.0	8.57	10.85	13.50	16.70	20.40	24.80	29.80	35.60
40.0	7.99	10.10	12.65	15.60	19.05	23.10	27.80	33.20
45.0	7.40	9.37	11.70	14.40	17.60	21.40	25.70	30.80
50.0	6.78	8.60	10.70	13.20	16.15	19.55	23.60	28.20
54.4	6.23	7.90	9.83	12.10	14.75	17.90	21.60	25.90

50 Hz

ZF49K5E-TFD

R404A Dew Point

Cond °C	Power, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
4.0	4.20	4.45	4.76	5.14	5.56	6.02	6.51	
5.0	4.24	4.48	4.80	5.18	5.60	6.06	6.56	
10.0	4.58	4.83	5.16	5.54	5.98	6.46	6.96	7.50
15.0	4.94	5.20	5.54	5.93	6.38	6.87	7.40	7.94
20.0	5.34	5.61	5.95	6.36	6.82	7.32	7.86	8.43
25.0	5.77	6.05	6.40	6.82	7.29	7.81	8.37	8.95
30.0	6.24	6.53	6.90	7.33	7.82	8.35	8.92	9.53
35.0	6.77	7.07	7.44	7.89	8.39	8.94	9.53	10.15
40.0	7.36	7.67	8.05	8.51	9.03	9.60	10.20	10.85
45.0	8.01	8.33	8.73	9.20	9.74	10.30	10.95	11.60
50.0	8.73	9.07	9.48	9.97	10.50	11.10	11.75	12.45
54.4	9.44	9.78	10.20	10.70	11.25	11.90	12.55	13.25

Cond °C	Current at 400 V, A							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
4.0	10.48	10.73	11.06	11.47	11.95	12.48	13.07	
5.0	10.52	10.77	11.10	11.51	11.99	12.53	13.12	
10.0	10.88	11.14	11.50	11.93	12.44	13.01	13.63	14.30
15.0	11.27	11.55	11.92	12.38	12.92	13.52	14.18	14.88
20.0	11.70	12.00	12.40	12.88	13.45	14.08	14.78	15.53
25.0	12.19	12.51	12.93	13.45	14.04	14.71	15.45	16.24
30.0	12.74	13.09	13.54	14.09	14.72	15.42	16.20	17.04
35.0	13.39	13.76	14.24	14.81	15.48	16.23	17.05	17.93
40.0	14.12	14.52	15.03	15.64	16.35	17.14	18.00	18.93
45.0	14.97	15.40	15.94	16.59	17.33	18.17	19.08	20.06
50.0	15.94	16.40	16.98	17.67	18.45	19.33	20.29	21.33
54.4	16.91	17.40	18.01	18.73	19.56	20.48	21.48	22.57

Cond °C	Suction Mass Flow, g/s							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
4.0	62.30	78.10	97.60	121.00	149.50	182.50	222.00	
5.0	62.30	78.10	97.60	121.00	149.50	182.50	222.00	
10.0	62.10	78.10	97.70	121.50	149.50	183.00	222.00	267.00
15.0	62.00	78.10	97.70	121.50	149.50	183.00	222.00	267.00
20.0	61.70	77.90	97.60	121.00	149.00	182.50	221.00	267.00
25.0	61.30	77.60	97.30	121.00	148.50	182.00	221.00	266.00
30.0	60.90	77.20	96.80	120.00	148.00	181.00	219.00	265.00
35.0	60.40	76.70	96.10	119.50	147.00	179.50	218.00	263.00
40.0	59.80	76.00	95.30	118.50	145.50	178.00	216.00	261.00
45.0	59.10	75.20	94.30	117.00	144.00	176.00	214.00	259.00
50.0	58.40	74.30	93.10	115.50	142.00	174.00	212.00	257.00
54.4	57.70	73.50	92.00	114.00	140.50	172.00	210.00	255.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	42.4
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)
Sound Pressure @ 1m (LT), dBA	72
Sound Power (LT), dBA	83
Sound Power with Sound Shell (LT), dBA	73
Sound Conditions (LT, Temperatures:	-35 / 40 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	3922
Refrigerant's classification	A1

50 Hz

ZF49K5E-TFD

R404A Dew Point

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

Maximum Operating Current, A	30
Locked Rotor Current, A	139
Winding Resistance, ohm	1.09
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	66 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell
Rotalock valves	suction and discharge

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04