



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified Liquid injection
- 25 °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	-10.0	-5.0	0.0	5.0	7.0
10.0	4.49	5.67	7.08	8.76	10.75	13.10					
15.0	4.31	5.43	6.77	8.37	10.25	12.45	15.05				
20.0	4.11	5.19	6.46	7.97	9.74	11.85	14.25	17.05			
25.0	3.89	4.93	6.14	7.56	9.23	11.20	13.45	16.10	19.15		
30.0	3.66	4.66	5.81	7.14	8.71	10.55	12.65	15.15	18.00	21.30	22.70
35.0	3.40	4.36	5.45	6.71	8.17	9.87	11.85	14.15	16.80	19.85	21.20
40.0	3.12	4.04	5.08	6.25	7.61	9.19	11.05	13.15	15.65	18.50	19.75
45.0	2.80	3.70	4.68	5.78	7.04	8.50	10.20	12.15	14.45	17.10	18.25
50.0	2.45	3.32	4.24	5.27	6.43	7.78	9.33	11.15	13.25	15.70	16.75
55.0	2.06	2.90	3.77	4.73	5.80	7.03	8.45	10.10	12.05	14.25	15.25
60.0						6.25	7.54	9.03	10.80	12.80	13.70

50 Hz

ZF18K4E-TFD

R404A 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	2.04	2.15	2.28	2.42	2.57	2.74					
15.0	2.16	2.27	2.40	2.55	2.71	2.88	3.07				
20.0	2.31	2.42	2.55	2.69	2.85	3.03	3.22	3.44			
25.0	2.51	2.62	2.74	2.87	3.03	3.21	3.40	3.61	3.84		
30.0	2.78	2.87	2.97	3.10	3.25	3.42	3.61	3.82	4.04	4.29	4.40
35.0	3.12	3.19	3.28	3.40	3.53	3.69	3.87	4.07	4.29	4.53	4.63
40.0	3.55	3.60	3.67	3.77	3.89	4.03	4.19	4.38	4.59	4.82	4.92
45.0	4.09	4.11	4.16	4.23	4.33	4.45	4.59	4.76	4.96	5.18	5.27
50.0	4.76	4.75	4.76	4.81	4.88	4.97	5.09	5.24	5.42	5.62	5.71
55.0	5.56	5.51	5.49	5.51	5.54	5.61	5.71	5.83	5.98	6.16	6.24
60.0						6.38	6.44	6.53	6.65	6.81	6.87

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	5.82	5.89	5.98	6.10	6.25	6.42					
15.0	5.80	5.89	6.00	6.15	6.32	6.53	6.75				
20.0	5.81	5.92	6.05	6.22	6.41	6.64	6.89	7.17			
25.0	5.86	5.98	6.13	6.32	6.53	6.78	7.05	7.35	7.68		
30.0	5.97	6.10	6.27	6.47	6.70	6.96	7.26	7.58	7.92	8.30	8.45
35.0	6.16	6.30	6.48	6.69	6.93	7.21	7.52	7.85	8.22	8.61	8.78
40.0	6.44	6.59	6.77	6.99	7.25	7.54	7.86	8.21	8.59	8.99	9.16
45.0	6.83	6.98	7.17	7.40	7.66	7.96	8.29	8.65	9.04	9.46	9.63
50.0	7.35	7.50	7.70	7.92	8.19	8.49	8.83	9.19	9.59	10.02	10.20
55.0	8.02	8.17	8.36	8.58	8.85	9.15	9.49	9.86	10.27	10.71	10.89
60.0						9.96	10.30	10.68	11.08	11.52	11.71

50 Hz

ZF18K4E-TFD

R404A 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	0.0	5.0	7.0
10.0	25.00	31.60	39.70	49.30	60.80	74.50					
15.0	25.00	31.60	39.60	49.10	60.40	73.90	89.90				
20.0	24.90	31.50	39.40	48.90	60.10	73.40	89.10	107.50			
25.0	24.70	31.40	39.30	48.60	59.70	72.80	88.30	106.50	128.00		
30.0	24.40	31.20	39.10	48.30	59.20	72.20	87.50	105.50	127.00	152.00	163.50
35.0	24.00	30.90	38.80	48.00	58.70	71.50	86.60	104.50	126.00	151.00	162.00
40.0	23.30	30.40	38.30	47.50	58.20	70.80	85.80	103.50	124.50	149.50	161.00
45.0	22.40	29.70	37.70	46.90	57.50	70.00	84.90	102.50	123.50	148.50	160.00
50.0	21.10	28.70	36.90	46.10	56.70	69.20	83.90	101.50	122.50	148.00	159.50
55.0	19.30	27.30	35.70	45.10	55.80	68.30	83.00	100.50	122.00	147.50	159.50
60.0						67.40	82.40	100.50	122.00	148.50	160.50

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	17.1
Length/Width, mm	246/251
Height, mm	442
Net Weight, kg	41
Gross Weight, kg	44
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	67
Sound Power (LT), dBA	78
Sound Power with Sound Shell (LT), dBA	72
Sound Conditions (LT, Temperatures:	-35 / 40 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	5.70
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	12.5
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
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**

<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
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