



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 0 °C Suction Gas Return
- 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	5.36	6.70	8.20	9.88	11.80	13.90					
15.0	5.24	6.54	8.01	9.66	11.55	13.65	16.00				
20.0	5.16	6.42	7.84	9.45	11.30	13.35	15.70	18.35			
25.0	5.10	6.31	7.68	9.25	11.05	13.10	15.40	18.05	21.00		
30.0	5.07	6.21	7.54	9.06	10.80	12.80	15.10	17.65	20.60	23.90	25.30
35.0	5.04	6.13	7.40	8.86	10.55	12.50	14.75	17.30	20.20	23.40	24.80
40.0	5.03	6.06	7.26	8.66	10.30	12.20	14.40	16.90	19.75	22.90	24.30
45.0		5.98	7.12	8.46	10.05	11.90	14.00	16.45	19.25	22.40	23.80
50.0		5.91	6.97	8.25	9.76	11.55	13.60	16.00	18.70	21.80	23.20
55.0			6.81	8.01	9.45	11.15	13.15	15.45	18.15	21.20	22.50
60.0					10.75	12.65	14.90	17.50	20.50	21.80	

50 Hz

ZF18KVE-TFD EVI

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	2.15	2.21	2.27	2.34	2.41	2.49					
15.0	2.43	2.51	2.60	2.69	2.78	2.87	2.97				
20.0	2.68	2.79	2.91	3.02	3.12	3.23	3.34	3.45			
25.0	2.93	3.07	3.21	3.34	3.47	3.59	3.71	3.83	3.95		
30.0	3.20	3.36	3.52	3.67	3.82	3.96	4.09	4.22	4.35	4.48	4.53
35.0	3.49	3.68	3.87	4.04	4.20	4.35	4.49	4.63	4.77	4.90	4.96
40.0	3.83	4.05	4.25	4.44	4.62	4.79	4.95	5.09	5.23	5.36	5.42
45.0		4.47	4.70	4.91	5.11	5.29	5.46	5.61	5.76	5.89	5.94
50.0		4.98	5.23	5.47	5.68	5.87	6.05	6.20	6.35	6.49	6.55
55.0			5.87	6.12	6.34	6.54	6.73	6.90	7.05	7.20	7.25
60.0						7.34	7.54	7.72	7.88	8.01	8.06

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	5.32	5.36	5.41	5.47	5.54	5.61					
15.0	5.61	5.69	5.77	5.86	5.96	6.06	6.17				
20.0	5.88	5.99	6.11	6.23	6.35	6.48	6.61	6.74			
25.0	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.19	7.34		
30.0	6.44	6.62	6.81	6.99	7.16	7.34	7.50	7.66	7.82	7.99	8.06
35.0	6.77	6.99	7.21	7.42	7.63	7.82	8.00	8.18	8.36	8.53	8.60
40.0	7.18	7.44	7.69	7.93	8.16	8.37	8.58	8.78	8.97	9.14	9.21
45.0		7.98	8.27	8.53	8.79	9.03	9.25	9.47	9.67	9.85	9.92
50.0		8.66	8.97	9.28	9.55	9.81	10.06	10.27	10.48	10.69	10.76
55.0			9.84	10.16	10.46	10.74	11.00	11.24	11.47	11.68	11.76
60.0						11.86	12.15	12.41	12.65	12.85	12.93

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	24.50	31.60	39.80	49.30	60.50	73.70					
15.0	24.20	31.20	39.20	48.70	59.90	73.10	88.60				
20.0	24.00	30.90	38.80	48.20	59.30	72.50	88.10	106.50			
25.0	24.00	30.60	38.40	47.70	58.80	71.90	87.50	106.00	127.50		
30.0	24.00	30.50	38.10	47.20	58.20	71.30	86.90	105.50	127.00	151.50	162.50
35.0	24.10	30.40	37.80	46.80	57.70	70.70	86.30	104.50	126.00	151.00	162.00
40.0	24.30	30.30	37.50	46.40	57.10	70.00	85.50	104.00	125.50	150.50	161.50
45.0		30.20	37.30	45.90	56.50	69.30	84.70	103.00	124.50	149.50	160.50
50.0		30.20	37.00	45.40	55.80	68.50	83.80	102.00	123.50	148.50	160.00
55.0			36.60	44.80	55.00	67.60	82.80	101.00	122.50	147.50	158.50
60.0						66.50	81.60	99.70	121.00	146.00	157.00

### 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	39.5
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	68
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	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

50 Hz

ZF18KVE-TFD EVI

R404A Dew Point

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

Maximum Operating Current, A	13.7
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
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)

### **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