



Minimum Evaporating Temp. With:

■ 25 °C Suction Gas Return

■ Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
20.0	2.98	3.83	4.87	6.13	7.65	9.45	11.55		
25.0	2.81	3.63	4.64	5.86	7.32	9.05	11.10		
30.0	2.64	3.44	4.41	5.57	6.98	8.64	10.60	12.90	13.90
35.0		3.24	4.17	5.29	6.63	8.22	10.10	12.30	13.25
40.0		3.05	3.93	5.00	6.27	7.79	9.59	11.70	12.65
45.0			3.69	4.70	5.91	7.35	9.06	11.05	11.95
50.0			3.45	4.40	5.54	6.91	8.53	10.45	11.30
55.0				4.10	5.17	6.45	7.98	9.80	10.60
60.0				3.79	4.79	5.99	7.43	9.14	9.91

50 Hz

ZS45K4E-TFD

R134a

Cond °C	Power, kW								
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
20.0	1.66	1.72	1.80	1.88	1.97	2.08	2.22		
25.0	1.77	1.85	1.92	2.01	2.10	2.21	2.35		
30.0	1.89	1.98	2.07	2.15	2.25	2.36	2.49	2.65	2.73
35.0		2.12	2.21	2.31	2.41	2.52	2.66	2.81	2.89
40.0		2.26	2.37	2.47	2.58	2.70	2.84	2.99	3.06
45.0			2.53	2.65	2.77	2.89	3.03	3.19	3.26
50.0			2.69	2.83	2.96	3.09	3.24	3.40	3.48
55.0				3.01	3.16	3.31	3.46	3.63	3.71
60.0				3.20	3.36	3.53	3.69	3.87	3.95

Cond °C	Current at 400 V, A								
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
20.0	4.54	4.59	4.65	4.71	4.79	4.90	5.03		
25.0	4.63	4.69	4.76	4.83	4.91	5.02	5.15		
30.0	4.73	4.80	4.88	4.96	5.05	5.16	5.30	5.46	5.54
35.0		4.93	5.02	5.11	5.21	5.33	5.47	5.64	5.72
40.0		5.06	5.17	5.27	5.39	5.52	5.67	5.85	5.93
45.0			5.33	5.46	5.59	5.73	5.90	6.09	6.17
50.0			5.51	5.66	5.81	5.97	6.15	6.35	6.44
55.0				5.87	6.04	6.23	6.42	6.65	6.74
60.0				6.10	6.30	6.50	6.73	6.97	7.07

Cond °C	Suction Mass Flow, g/s								
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
20.0	18.65	23.40	29.20	36.10	44.20	53.60	64.40		
25.0	18.40	23.30	29.10	36.00	44.10	53.50	64.30		
30.0	18.15	23.10	28.90	35.80	43.90	53.30	64.20	76.50	81.90
35.0		22.90	28.80	35.70	43.80	53.10	64.00	76.40	81.80
40.0		22.70	28.60	35.50	43.60	52.90	63.70	76.10	81.60
45.0			28.50	35.30	43.30	52.70	63.50	75.80	81.30
50.0			28.30	35.10	43.10	52.40	63.10	75.50	81.00
55.0				34.90	42.80	52.00	62.70	75.10	80.60
60.0				34.70	42.50	51.70	62.30	74.70	80.20

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	17.1
Length/Width, mm	241/244
Height, mm	438
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 (MT), dBA	67
Sound Power (MT), dBA	78
Sound Power with Sound Shell (MT), dBA	72
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 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	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	12
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
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Oil Control System	ALCO Trax-Oil OM3

## **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
TF7	380 V / 3~ / 60 Hz	380		Y	1.26