



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	2.53	3.25	4.13	5.21	6.49	8.00	9.77		
25.0	2.41	3.10	3.95	4.98	6.20	7.66	9.36		
30.0	2.29	2.95	3.76	4.74	5.92	7.31	8.94	10.85	11.65
35.0		2.79	3.57	4.50	5.62	6.95	8.51	10.35	11.15
40.0		2.63	3.37	4.25	5.32	6.58	8.08	9.82	10.60
45.0			3.16	4.00	5.01	6.21	7.63	9.29	10.05
50.0			2.96	3.75	4.70	5.83	7.18	8.76	9.47
55.0				3.49	4.38	5.45	6.73	8.23	8.90
60.0				3.22	4.06	5.06	6.26	7.68	8.32

50 Hz

ZS38K4E-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	1.18	1.24	1.32	1.42	1.54	1.70	1.88		
25.0	1.27	1.34	1.42	1.52	1.64	1.78	1.95		
30.0	1.36	1.45	1.54	1.64	1.75	1.88	2.04	2.22	2.30
35.0		1.56	1.65	1.76	1.87	2.00	2.14	2.31	2.39
40.0		1.66	1.77	1.88	2.00	2.13	2.27	2.43	2.50
45.0			1.90	2.02	2.14	2.27	2.41	2.57	2.63
50.0			2.03	2.17	2.30	2.44	2.58	2.73	2.80
55.0				2.33	2.48	2.63	2.77	2.92	2.99
60.0				2.51	2.68	2.84	2.99	3.14	3.21

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	3.95	4.02	4.10	4.19	4.30	4.43	4.59		
25.0	4.05	4.12	4.20	4.29	4.39	4.51	4.66		
30.0	4.15	4.22	4.30	4.38	4.48	4.60	4.73	4.90	4.97
35.0		4.31	4.40	4.48	4.58	4.69	4.83	4.98	5.05
40.0		4.40	4.50	4.59	4.70	4.81	4.94	5.09	5.16
45.0			4.61	4.72	4.83	4.95	5.08	5.23	5.30
50.0			4.73	4.85	4.98	5.11	5.25	5.41	5.47
55.0				5.01	5.15	5.29	5.45	5.61	5.68
60.0				5.18	5.35	5.51	5.68	5.86	5.94

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	15.85	19.90	24.80	30.60	37.40	45.30	54.40		
25.0	15.80	19.85	24.80	30.60	37.40	45.20	54.20		
30.0	15.70	19.80	24.70	30.50	37.30	45.10	54.10	64.30	68.80
35.0		19.75	24.60	30.40	37.10	44.90	53.90	64.10	68.60
40.0		19.65	24.50	30.20	36.90	44.70	53.70	63.90	68.40
45.0			24.40	30.10	36.70	44.50	53.40	63.70	68.10
50.0			24.20	29.90	36.50	44.20	53.20	63.40	67.90
55.0				29.70	36.30	44.00	52.90	63.10	67.60
60.0				29.50	36.00	43.70	52.60	62.80	67.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	241/244
Height, mm	438
Net Weight, kg	38
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	68
Sound Power (LT), dBA	79
Sound Power with Sound Shell (LT), dBA	69
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
Sound Pressure @ 1m (MT), dBA	65
Sound Power (MT), dBA	76
Sound Power with Sound Shell (MT), dBA	66
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	5.90
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	10
Locked Rotor Current, A	64
Winding Resistance, ohm	2.75
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

50 Hz

ZS38K4E-TFD

R134a

ACCESSORIES OPTIONAL

<p>Crankcase Heater Oil Control System Sound Attenuation Rotalock valves</p>	<p>70 W External ALCO Trax-Oil OM3 Sound Shell (10dBA) suction and discharge</p>
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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
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