



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	2.08	2.65	3.36	4.22	5.25	6.45	7.85		
25.0	1.96	2.52	3.20	4.03	5.02	6.19	7.54		
30.0	1.86	2.39	3.04	3.84	4.79	5.91	7.22	8.73	9.40
35.0		2.25	2.88	3.64	4.55	5.63	6.89	8.35	8.99
40.0		2.12	2.72	3.44	4.31	5.34	6.54	7.95	8.57
45.0			2.55	3.23	4.06	5.04	6.19	7.54	8.13
50.0			2.38	3.02	3.80	4.73	5.83	7.11	7.68
55.0				2.81	3.54	4.41	5.45	6.68	7.22
60.0				2.59	3.27	4.09	5.07	6.23	6.75

50 Hz

ZS30K4E-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	0.95	1.01	1.08	1.14	1.24	1.34	1.48		
25.0	1.02	1.10	1.16	1.24	1.32	1.42	1.54		
30.0	1.10	1.18	1.25	1.32	1.40	1.50	1.62	1.77	1.84
35.0		1.27	1.34	1.42	1.50	1.60	1.72	1.85	1.91
40.0		1.36	1.44	1.52	1.62	1.70	1.82	1.94	2.01
45.0			1.56	1.64	1.74	1.83	1.94	2.06	2.12
50.0			1.68	1.78	1.88	1.98	2.08	2.20	2.26
55.0				1.94	2.04	2.14	2.25	2.37	2.42
60.0				2.12	2.23	2.33	2.45	2.57	2.62

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	2.92	2.97	3.03	3.10	3.19	3.30	3.45		
25.0	2.99	3.05	3.12	3.19	3.28	3.39	3.53		
30.0	3.07	3.14	3.21	3.28	3.37	3.48	3.62	3.79	3.86
35.0		3.22	3.30	3.39	3.48	3.59	3.72	3.89	3.96
40.0		3.32	3.41	3.50	3.60	3.71	3.85	4.01	4.08
45.0			3.54	3.64	3.75	3.86	4.00	4.16	4.23
50.0			3.69	3.80	3.92	4.05	4.19	4.35	4.42
55.0				4.00	4.13	4.26	4.41	4.58	4.65
60.0				4.23	4.37	4.52	4.68	4.85	4.93

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	13.00	16.25	20.20	24.80	30.30	36.60	43.70		
25.0	12.85	16.15	20.10	24.80	30.20	36.50	43.70		
30.0	12.75	16.00	20.00	24.70	30.20	36.50	43.70	51.80	55.40
35.0		15.90	19.90	24.60	30.10	36.40	43.60	51.80	55.40
40.0		15.80	19.75	24.40	29.90	36.30	43.50	51.70	55.30
45.0			19.65	24.30	29.70	36.10	43.30	51.60	55.20
50.0			19.50	24.10	29.50	35.90	43.10	51.40	55.10
55.0				23.90	29.30	35.60	42.90	51.20	54.90
60.0				23.70	29.00	35.20	42.50	50.90	54.60

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	11.7
Length/Width, mm	241/244
Height, mm	438
Net Weight, kg	37
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	65
Sound Power (MT), dBA	76
Sound Power with Sound Shell (MT), dBA	68
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	6.10
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	8.23
Locked Rotor Current, A	51.5
Winding Resistance, ohm	3.64
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
Discharge Temperature Protection	Discharge line thermostat

ACCESSORIES OPTIONAL

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

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