



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	1.43	1.82	2.31	2.90	3.60	4.43	5.39		
25.0	1.35	1.73	2.20	2.77	3.45	4.25	5.18		
30.0	1.28	1.64	2.09	2.64	3.29	4.06	4.97	6.00	6.46
35.0		1.55	1.98	2.50	3.13	3.87	4.74	5.74	6.18
40.0		1.46	1.86	2.36	2.96	3.67	4.50	5.47	5.89
45.0			1.75	2.22	2.79	3.46	4.26	5.18	5.60
50.0			1.64	2.07	2.61	3.25	4.01	4.89	5.29
55.0				1.93	2.43	3.03	3.75	4.59	4.97
60.0				1.78	2.25	2.81	3.49	4.29	4.64

50 Hz

ZS21K4E-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	0.65	0.69	0.74	0.79	0.85	0.92	1.02		
25.0	0.71	0.75	0.80	0.85	0.91	0.98	1.06		
30.0	0.76	0.81	0.86	0.91	0.97	1.03	1.12	1.22	1.26
35.0		0.87	0.92	0.98	1.03	1.10	1.18	1.27	1.32
40.0		0.94	0.99	1.05	1.11	1.18	1.25	1.34	1.38
45.0			1.07	1.13	1.20	1.26	1.34	1.42	1.46
50.0			1.16	1.23	1.29	1.36	1.43	1.52	1.56
55.0				1.34	1.40	1.48	1.54	1.63	1.66
60.0				1.46	1.53	1.60	1.68	1.76	1.80

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	2.81	2.83	2.85	2.87	2.89	2.93	2.97		
25.0	2.83	2.85	2.87	2.89	2.92	2.95	2.99		
30.0	2.86	2.88	2.90	2.92	2.95	2.98	3.01	3.06	3.08
35.0		2.90	2.93	2.95	2.98	3.01	3.04	3.09	3.11
40.0		2.93	2.96	2.98	3.01	3.04	3.08	3.12	3.14
45.0			2.99	3.02	3.05	3.08	3.12	3.16	3.18
50.0			3.03	3.07	3.10	3.13	3.17	3.21	3.23
55.0				3.12	3.15	3.19	3.23	3.28	3.30
60.0				3.18	3.22	3.26	3.30	3.35	3.37

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	8.93	11.15	13.85	17.05	20.80	25.10	30.00		
25.0	8.85	11.10	13.80	17.00	20.80	25.10	30.00		
30.0	8.76	11.00	13.75	16.95	20.70	25.10	30.00	35.60	38.10
35.0		10.95	13.65	16.90	20.70	25.00	30.00	35.60	38.10
40.0		10.85	13.55	16.80	20.60	24.90	29.90	35.60	38.10
45.0			13.45	16.65	20.40	24.80	29.80	35.50	38.00
50.0			13.40	16.55	20.30	24.60	29.70	35.40	37.90
55.0				16.40	20.10	24.50	29.50	35.20	37.70
60.0				16.30	19.95	24.20	29.30	35.00	37.60

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	8.07
Length/Width, mm	243/244
Height, mm	391
Net Weight, kg	30
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.5
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	62
Sound Power (MT), dBA	73
Sound Power with Sound Shell (MT), dBA	64
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	4.10
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	6
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
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
Rotalock valves	suction and discharge
Oil Control System	ALCO Trax-Oil OM3

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