



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °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									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	13.70	17.25	21.50	26.50						
15.0	13.10	16.60	20.70	25.60						
20.0	12.45	15.90	19.95	24.70	30.20					
25.0	11.80	15.15	19.10	23.70	29.00	35.10	37.80			
30.0	11.10	14.40	18.25	22.70	27.80	33.70	36.30	40.50	44.20	
35.0	10.35	13.55	17.30	21.60	26.60	32.20	34.70	38.70	42.20	46.00
40.0	9.60	12.70	16.30	20.40	25.20	30.60	33.00	36.80	40.20	43.90
45.0		11.75	15.20	19.20	23.80	29.00	31.20	34.90	38.10	41.60
50.0			14.05	17.90	22.20	27.20	29.40	32.80	35.90	39.20
55.0				16.45	20.60	25.30	27.40	30.60	33.60	36.70
60.0				14.95	18.90	23.30	25.30	28.30	31.10	34.00
65.0					17.05	21.20	23.00	25.90	28.50	31.20
70.0						19.00	20.70	23.40	25.80	28.30
75.0							16.65	18.20	20.70	25.30

50 Hz

ZB114K5E-TFD

R134a

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	3.51	3.58	3.67	3.78						
15.0	3.90	3.97	4.06	4.17						
20.0	4.32	4.39	4.47	4.58	4.71					
25.0	4.79	4.85	4.93	5.03	5.15	5.31	5.38			
30.0	5.31	5.37	5.44	5.53	5.65	5.79	5.86	5.97	6.08	
35.0	5.90	5.95	6.01	6.10	6.20	6.34	6.40	6.51	6.60	6.71
40.0	6.58	6.62	6.67	6.74	6.84	6.96	7.02	7.12	7.21	7.31
45.0		7.39	7.43	7.49	7.57	7.67	7.73	7.81	7.90	7.99
50.0			8.29	8.33	8.40	8.49	8.54	8.61	8.69	8.77
55.0				9.30	9.35	9.43	9.46	9.53	9.60	9.67
60.0				10.40	10.45	10.50	10.50	10.60	10.65	10.70
65.0					11.65	11.70	11.75	11.75	11.80	11.85
70.0						13.10	13.10	13.10	13.15	13.20
75.0						14.60	14.60	14.65	14.65	14.70

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	14.63	14.43	14.37	14.43						
15.0	14.83	14.63	14.58	14.63						
20.0	15.05	14.87	14.82	14.88	15.01					
25.0	15.33	15.16	15.12	15.17	15.30	15.47	15.53			
30.0	15.69	15.52	15.49	15.55	15.67	15.83	15.90	15.99	16.06	
35.0	16.14	15.98	15.95	16.01	16.14	16.29	16.35	16.44	16.51	16.56
40.0	16.70	16.55	16.53	16.59	16.72	16.87	16.93	17.01	17.07	17.12
45.0		17.26	17.24	17.31	17.43	17.58	17.64	17.72	17.77	17.81
50.0			18.11	18.18	18.30	18.45	18.50	18.58	18.63	18.66
55.0				19.22	19.35	19.49	19.54	19.61	19.66	19.69
60.0				20.46	20.59	20.73	20.78	20.84	20.88	20.91
65.0					22.04	22.18	22.23	22.29	22.33	22.35
70.0						23.87	23.91	23.97	24.00	24.02
75.0						25.81	25.86	25.91	25.94	25.95

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	66.50	84.00	105.00	130.00						
15.0	65.70	83.60	105.00	130.00						
20.0	64.90	83.00	104.50	130.00	160.00					
25.0	63.80	82.30	104.00	130.00	160.00	195.00	210.00			
30.0	62.50	81.30	103.50	129.50	159.50	195.00	211.00	236.00	259.00	
35.0	60.90	80.00	102.50	128.50	159.00	194.50	210.00	236.00	259.00	283.00
40.0	59.00	78.30	101.00	127.50	158.00	193.50	209.00	235.00	258.00	283.00
45.0		76.10	98.90	125.50	156.50	192.50	208.00	234.00	257.00	282.00
50.0			96.30	123.00	154.50	190.50	206.00	232.00	255.00	281.00
55.0				120.00	151.50	187.50	204.00	229.00	253.00	278.00
60.0				116.00	147.50	184.00	200.00	226.00	250.00	275.00
65.0					142.00	179.00	195.00	221.00	245.00	271.00
70.0						172.50	189.00	215.00	239.00	265.00
75.0						164.50	181.00	208.00	232.00	258.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	43.4
Length/Width, mm	280/280
Height, mm	552
Net Weight, kg	66.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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 (0)
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	14.0
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1430
Refrigerant's classification	A1

50 Hz

ZB114K5E-TFD

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

Maximum Operating Current, A	33.5
Locked Rotor Current, A	174
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Mounting Grommets	Hard Mounts for Paralleling
Crankcase Heater	90 W External
Enclosure Class	IP66 With Molded Plug

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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04