



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

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	13.45	17.05	21.30	26.40						
15.0	12.80	16.35	20.50	25.40						
20.0	12.10	15.60	19.65	24.40	30.00					
25.0	11.40	14.80	18.75	23.40	28.80	35.00	37.80			
30.0	10.65	13.95	17.80	22.30	27.50	33.60	36.20	40.50	44.30	
35.0	9.85	13.05	16.80	21.20	26.20	32.00	34.60	38.70	42.40	46.30
40.0	9.00	12.10	15.75	19.95	24.80	30.40	32.90	36.80	40.40	44.10
45.0		11.10	14.60	18.65	23.30	28.70	31.10	34.90	38.30	41.90
50.0			13.40	17.25	21.80	26.90	29.20	32.80	36.10	39.50
55.0			12.10	15.80	20.10	25.00	27.20	30.60	33.80	37.10
60.0				14.25	18.30	23.00	25.00	28.40	31.30	34.50
65.0					16.40	20.90	22.80	25.90	28.80	31.80
70.0					14.45	18.60	20.40	23.40	26.10	28.90
75.0						16.20	17.95	20.70	23.20	25.90

50 Hz

ZB114KCE-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			9.28	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					13.05	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	18.73	18.75	18.77	18.77						
15.0	19.06	19.09	19.12	19.14						
20.0	19.29	19.33	19.37	19.40	19.44					
25.0	19.48	19.52	19.56	19.61	19.66	19.73	19.76			
30.0	19.68	19.72	19.76	19.81	19.88	19.96	20.00	20.07	20.12	
35.0	19.97	19.99	20.03	20.08	20.16	20.25	20.30	20.37	20.44	20.52
40.0	20.40	20.41	20.43	20.48	20.55	20.66	20.70	20.79	20.86	20.95
45.0		21.01	21.02	21.06	21.13	21.23	21.28	21.37	21.45	21.55
50.0			21.86	21.88	21.94	22.04	22.09	22.18	22.27	22.36
55.0			23.02	23.02	23.06	23.15	23.20	23.28	23.37	23.47
60.0				24.51	24.54	24.61	24.65	24.73	24.82	24.92
65.0					26.43	26.48	26.52	26.60	26.67	26.77
70.0					28.81	28.84	28.87	28.93	29.00	29.09
75.0						31.73	31.74	31.79	31.85	31.93

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	74.50	92.70	114.00	138.50						
15.0	73.70	92.20	114.00	138.50						
20.0	72.70	91.70	113.50	138.50	167.00					
25.0	71.50	90.80	113.00	138.50	167.00	199.50	213.00			
30.0	70.00	89.70	112.00	138.00	166.50	199.50	213.00	236.00	256.00	
35.0	68.00	88.20	111.00	137.00	166.00	199.00	213.00	236.00	256.00	277.00
40.0	65.50	86.20	109.50	135.50	165.00	198.00	212.00	235.00	255.00	276.00
45.0		83.50	107.00	133.50	163.50	196.50	211.00	234.00	254.00	275.00
50.0			104.00	131.00	161.00	194.50	209.00	232.00	252.00	274.00
55.0			100.00	127.50	158.00	192.00	206.00	230.00	250.00	271.00
60.0				123.00	153.50	188.00	203.00	226.00	247.00	268.00
65.0					148.00	183.00	198.00	221.00	242.00	264.00
70.0					141.00	176.50	191.50	215.00	237.00	259.00
75.0						168.00	183.50	208.00	229.00	252.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	43.3
Length/Width, mm	264/285
Height, mm	552
Net Weight, kg	66.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.25
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, dBA	71
Sound Power, dBA	82
PED Category	2
Max. Internal Free Volume, l	14.0
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	33.3
Locked Rotor Current, A	174
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Oil Control System	ALCO Trax-Oil OM3
Crankcase Heater	66 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling

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
TWE	500 V / 3~ / 50 Hz	500		Y	0.80
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TWE	575 V / 3~ / 60 Hz	575		Y	0.80
TW7	380 V / 3~ / 60 Hz	380		Y	1.26
TW5	200-230 V / 3~ / 60 Hz	230		Y	2.30