



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	7.95	9.92	12.30	15.15						
15.0	7.58	9.50	11.85	14.60						
20.0	7.20	9.06	11.35	14.05	17.15					
25.0	6.81	8.61	10.80	13.40	16.50	20.00	21.50			
30.0	6.42	8.15	10.25	12.80	15.75	19.15	20.60	23.00	25.10	
35.0	6.04	7.68	9.70	12.15	14.95	18.25	19.70	22.00	24.00	26.20
40.0	5.66	7.21	9.13	11.45	14.20	17.35	18.70	20.90	22.90	25.00
45.0		6.73	8.55	10.75	13.35	16.35	17.70	19.80	21.70	23.70
50.0			7.96	10.05	12.50	15.40	16.65	18.70	20.50	22.40
55.0			7.37	9.31	11.65	14.35	15.55	17.50	19.25	21.10
60.0				8.57	10.75	13.30	14.45	16.30	17.90	19.70
65.0					9.84	12.25	13.30	15.05	16.60	18.25
70.0					8.92	11.15	12.15	13.75	15.20	16.75
75.0						10.05	10.95	12.45	13.80	15.25

50 Hz

ZB66KCE-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	1.90	1.88	1.94	2.05						
15.0	2.14	2.11	2.15	2.25						
20.0	2.41	2.38	2.41	2.48	2.59					
25.0	2.71	2.68	2.70	2.76	2.84	2.93	2.96			
30.0	3.04	3.00	3.02	3.08	3.15	3.21	3.23	3.25	3.26	
35.0	3.38	3.36	3.38	3.43	3.49	3.54	3.55	3.56	3.55	3.53
40.0	3.75	3.74	3.77	3.82	3.88	3.92	3.93	3.92	3.91	3.87
45.0		4.15	4.19	4.25	4.30	4.34	4.34	4.34	4.31	4.27
50.0			4.64	4.71	4.77	4.81	4.81	4.80	4.77	4.72
55.0			5.12	5.21	5.28	5.32	5.32	5.31	5.28	5.22
60.0				5.74	5.83	5.87	5.88	5.87	5.83	5.78
65.0					6.41	6.47	6.48	6.47	6.44	6.39
70.0					7.03	7.11	7.13	7.12	7.10	7.05
75.0						7.79	7.81	7.82	7.80	7.76

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	8.17	8.31	8.45	8.58						
15.0	8.37	8.49	8.60	8.70						
20.0	8.58	8.68	8.77	8.85	8.91					
25.0	8.81	8.90	8.98	9.04	9.07	9.09	9.09			
30.0	9.05	9.15	9.22	9.27	9.29	9.29	9.28	9.26	9.23	
35.0	9.32	9.43	9.50	9.55	9.56	9.54	9.52	9.49	9.46	9.41
40.0	9.62	9.74	9.82	9.87	9.88	9.86	9.84	9.80	9.76	9.70
45.0		10.09	10.19	10.25	10.27	10.24	10.22	10.18	10.13	10.08
50.0			10.60	10.68	10.71	10.70	10.68	10.64	10.59	10.54
55.0			11.06	11.17	11.23	11.23	11.22	11.18	11.14	11.08
60.0				11.72	11.81	11.84	11.83	11.81	11.77	11.72
65.0					12.47	12.53	12.53	12.52	12.50	12.46
70.0					13.20	13.30	13.32	13.33	13.32	13.29
75.0						14.15	14.19	14.23	14.24	14.23

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	44.00	53.90	65.70	79.50						
15.0	43.60	53.60	65.60	79.60						
20.0	43.20	53.30	65.40	79.50	95.60					
25.0	42.70	52.90	65.10	79.30	95.50	113.50	121.50			
30.0	42.20	52.40	64.60	78.90	95.30	113.50	121.50	134.00	145.00	
35.0	41.70	51.80	64.10	78.40	94.80	113.50	121.50	134.00	145.00	156.50
40.0	41.20	51.20	63.40	77.80	94.20	113.00	121.00	133.50	144.50	156.50
45.0		50.60	62.70	77.00	93.50	112.00	120.00	133.00	144.00	156.00
50.0			61.90	76.10	92.50	111.00	119.50	132.00	143.50	155.50
55.0			61.00	75.10	91.40	110.00	118.00	131.00	142.50	154.50
60.0				73.90	90.20	109.00	117.00	130.00	141.00	153.00
65.0					88.70	107.50	115.50	128.50	139.50	151.50
70.0					87.20	105.50	113.50	126.50	138.00	150.00
75.0						104.00	112.00	125.00	136.50	148.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	24.9
Length/Width, mm	264/284
Height, mm	533
Net Weight, kg	59.9
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 (MT), dBA	66
Sound Power (MT), dBA	77
Sound Power with Sound Shell (MT), dBA	67
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	13.3
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	17.5
Locked Rotor Current, A	111
Winding Resistance, ohm	1.37
Default Enclosure Class	IP 21 (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)
Crankcase Heater	66 W External
Enclosure Class	IP66 With Molded Plug
Rotalock valves	suction and discharge
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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFE	500 V / 3~ / 50 Hz	500		Y	0.80
TW5	200-220 V / 3~ / 50 Hz	200		Y	2.30
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09
TFE	575 V / 3~ / 60 Hz	575		Y	0.80