



Minimum Evaporating Temp. With:

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

Suction Return Temperature 18.3°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	8.07	10.05	12.40	15.20						
15.0	7.73	9.64	11.95	14.70						
20.0	7.38	9.24	11.50	14.15	17.25					
25.0	7.03	8.82	11.00	13.60	16.60	20.00	21.50			
30.0	6.68	8.39	10.50	13.00	15.90	19.20	20.60	23.00	25.00	
35.0	6.32	7.96	9.97	12.35	15.15	18.30	19.70	21.90	23.90	
40.0	5.98	7.52	9.43	11.70	14.35	17.40	18.75	20.90	22.80	
45.0		7.08	8.88	11.05	13.55	16.45	17.75	19.75	21.60	
50.0			8.33	10.35	12.75	15.50	16.70	18.60	20.30	
55.0				9.65	11.90	14.45	15.60	17.45	19.05	
60.0				8.95	11.00	13.45	14.50	16.20	17.70	
65.0					10.15	12.40	13.35	14.95	16.35	
70.0						11.30	12.20	13.65	14.95	
75.0						10.20	11.00	12.35	13.50	

50 Hz

ZB66K5E-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	
40.0	3.75	3.74	3.77	3.82	3.88	3.92	3.93	3.92	3.91	
45.0		4.15	4.19	4.25	4.30	4.34	4.34	4.34	4.31	
50.0			4.64	4.71	4.77	4.81	4.81	4.80	4.77	
55.0				5.21	5.28	5.32	5.32	5.31	5.28	
60.0				5.74	5.83	5.87	5.88	5.87	5.83	
65.0					6.41	6.47	6.48	6.47	6.44	
70.0						7.11	7.13	7.12	7.10	
75.0						7.79	7.81	7.82	7.80	

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	
40.0	9.62	9.74	9.82	9.87	9.88	9.86	9.84	9.80	9.76	
45.0		10.09	10.19	10.25	10.27	10.24	10.22	10.18	10.13	
50.0			10.60	10.68	10.71	10.70	10.68	10.64	10.59	
55.0				11.17	11.23	11.23	11.22	11.18	11.14	
60.0				11.72	11.81	11.84	11.83	11.81	11.77	
65.0					12.47	12.53	12.53	12.52	12.50	
70.0						13.30	13.32	13.33	13.32	
75.0						14.15	14.19	14.23	14.24	

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	39.40	49.10	61.00	75.20						
15.0	39.10	48.90	60.90	75.20						
20.0	38.70	48.60	60.70	75.20	92.20					
25.0	38.30	48.30	60.40	75.00	92.10	112.00	121.00			
30.0	37.90	47.80	60.00	74.70	91.90	112.00	121.00	135.00	148.00	
35.0	37.50	47.30	59.50	74.20	91.50	111.50	120.50	135.00	148.00	
40.0	37.00	46.80	59.00	73.60	90.90	111.00	120.00	134.50	147.50	
45.0		46.30	58.30	72.90	90.20	110.50	119.50	134.00	147.00	
50.0			57.60	72.00	89.30	109.50	118.50	133.00	146.50	
55.0				71.10	88.20	108.50	117.50	132.00	145.50	
60.0				70.10	87.00	107.00	116.00	131.00	144.00	
65.0					85.70	105.50	114.50	129.00	142.50	
70.0						104.00	113.00	127.50	141.00	
75.0						102.50	111.50	126.00	139.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	25.7
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	59.9
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	66
Sound Power (MT), dBA	77
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
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 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	90 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04