



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								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	13.10	16.10	19.70	24.00					
15.0	12.50	15.40	18.80	22.80	27.50				
20.0	11.90	14.65	17.90	21.70	26.10	31.20			
25.0	11.30	13.90	16.95	20.50	24.70	29.40	34.90		
30.0	10.60	13.10	16.00	19.30	23.20	27.60	32.70	35.00	38.60
35.0	9.90	12.25	14.95	18.10	21.70	25.80	30.50	32.60	35.90
40.0	9.13	11.35	13.90	16.80	20.10	23.90	28.30	30.20	33.30
45.0	8.29	10.40	12.80	15.45	18.50	22.00	26.00	27.80	30.60
50.0		9.38	11.60	14.05	16.85	20.00	23.70	25.30	27.80
55.0			10.30	12.55	15.10	18.00	21.30	22.70	25.00
60.0				11.00	13.30	15.85	18.80	20.10	22.10

50 Hz

ZB66K5E-TFD

R404A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	3.29	3.35	3.42	3.52					
15.0	3.63	3.69	3.77	3.86	3.98				
20.0	4.01	4.07	4.14	4.24	4.35	4.48			
25.0	4.44	4.50	4.57	4.65	4.75	4.87	5.01		
30.0	4.94	4.99	5.05	5.13	5.22	5.32	5.44	5.49	5.58
35.0	5.50	5.55	5.61	5.67	5.74	5.83	5.93	5.98	6.05
40.0	6.15	6.20	6.24	6.29	6.35	6.42	6.50	6.53	6.59
45.0	6.90	6.94	6.97	7.01	7.05	7.09	7.15	7.17	7.22
50.0		7.78	7.80	7.82	7.85	7.87	7.90	7.91	7.94
55.0			8.75	8.75	8.75	8.76	8.76	8.76	8.77
60.0				9.81	9.79	9.76	9.74	9.73	9.71

Cond °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	9.54	9.56	9.59	9.63					
15.0	9.80	9.85	9.90	9.96	10.03				
20.0	10.12	10.18	10.24	10.32	10.40	10.50			
25.0	10.51	10.58	10.65	10.73	10.82	10.93	11.05		
30.0	11.00	11.07	11.14	11.22	11.32	11.42	11.55	11.60	11.69
35.0	11.60	11.67	11.74	11.81	11.90	12.00	12.12	12.18	12.26
40.0	12.34	12.40	12.46	12.53	12.60	12.70	12.80	12.85	12.93
45.0	13.24	13.28	13.33	13.38	13.44	13.52	13.61	13.65	13.72
50.0		14.35	14.37	14.40	14.44	14.49	14.56	14.59	14.65
55.0			15.60	15.60	15.62	15.64	15.68	15.70	15.74
60.0				17.02	16.99	16.98	16.99	17.00	17.01

Cond °C	Suction Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	73.70	91.00	112.00	137.00					
15.0	73.40	90.70	111.50	136.50	166.00				
20.0	73.00	90.30	111.00	135.50	164.50	199.00			
25.0	72.50	89.80	110.50	134.50	163.00	197.00	237.00		
30.0	71.80	89.10	109.50	133.50	162.00	195.00	234.00	252.00	281.00
35.0	70.80	88.20	108.50	132.00	160.00	193.00	232.00	249.00	278.00
40.0	69.30	86.90	107.00	130.50	158.00	191.00	229.00	246.00	275.00
45.0	67.30	85.10	105.50	128.50	156.00	188.00	226.00	243.00	272.00
50.0		82.70	103.00	126.50	153.50	185.50	223.00	240.00	268.00
55.0			100.00	123.50	150.50	182.50	220.00	237.00	265.00
60.0				120.00	147.50	179.50	217.00	235.00	263.00

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	3922
Refrigerant's classification	A1

50 Hz

ZB66K5E-TFD

R404A Dew Point

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	Internal Thermistor
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