



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	10.55	13.25	16.35	19.75				
15.0	10.20	12.90	16.05	19.60				
20.0	9.70	12.40	15.60	19.15	23.10			
25.0	9.15	11.80	14.90	18.50	22.40	26.70		
30.0		11.10	14.15	17.65	21.60	25.80	30.40	32.30
35.0			13.25	16.65	20.50	24.70	29.30	31.10
40.0			12.35	15.60	19.30	23.40	27.80	29.70
45.0				14.45	17.95	21.90	26.20	28.00
50.0					16.55	20.30	24.40	26.20
55.0						18.55	22.50	24.10

50 Hz

ZB66K5E-TFD

R407A Dew Point

Cond °C	Power, kW							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	2.77	2.87	2.92	2.89				
15.0	3.06	3.19	3.29	3.34				
20.0	3.38	3.52	3.66	3.76	3.80			
25.0	3.75	3.89	4.04	4.17	4.26	4.30		
30.0		4.32	4.46	4.61	4.73	4.81	4.84	4.83
35.0			4.96	5.09	5.23	5.34	5.42	5.44
40.0			5.55	5.66	5.79	5.91	6.02	6.05
45.0				6.32	6.43	6.55	6.67	6.71
50.0					7.18	7.27	7.38	7.43
55.0						8.12	8.20	8.24

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	7.99	8.14	8.16	8.06				
15.0	8.23	8.43	8.53	8.53				
20.0	8.53	8.76	8.90	8.98	8.98			
25.0	8.93	9.15	9.32	9.44	9.52	9.54		
30.0		9.64	9.81	9.96	10.08	10.19	10.26	10.29
35.0			10.41	10.55	10.71	10.86	11.02	11.08
40.0			11.16	11.28	11.43	11.61	11.82	11.91
45.0				12.16	12.28	12.46	12.70	12.81
50.0					13.30	13.45	13.69	13.81
55.0						14.62	14.83	14.95

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	49.60	62.40	77.30	94.00				
15.0	49.50	62.90	78.70	96.50				
20.0	48.90	62.80	79.20	97.90	119.00			
25.0	47.90	62.00	78.90	98.40	120.00	144.00		
30.0		60.80	77.90	97.90	120.50	145.50	173.00	184.50
35.0			76.50	96.70	120.00	146.00	174.50	186.50
40.0			74.70	94.80	118.50	145.00	174.50	187.00
45.0				92.50	116.00	143.00	173.50	186.50
50.0					113.00	140.00	171.00	184.50
55.0						137.00	168.00	181.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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	2107
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	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

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

50 Hz

ZB66K5E-TFD

R407A Dew Point

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