



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- 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	12.60	15.55	19.00	23.10					
15.0	12.05	14.85	18.20	22.10	26.70				
20.0	11.50	14.20	17.40	21.10	25.40	30.30			
25.0	10.90	13.45	16.50	20.00	24.10	28.70	34.00		
30.0	10.25	12.70	15.55	18.85	22.70	27.10	32.00	34.20	37.60
35.0	9.59	11.90	14.55	17.65	21.20	25.30	29.90	32.00	35.20
40.0	8.88	11.05	13.55	16.40	19.70	23.50	27.80	29.70	32.60
45.0		10.15	12.45	15.10	18.15	21.60	25.50	27.30	30.00
50.0			11.30	13.70	16.45	19.60	23.20	24.80	27.30
55.0			10.05	12.25	14.70	17.55	20.80	22.20	24.50
60.0				10.70	12.90	15.40	18.30	19.55	21.60

50 Hz

ZB66KCE-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	3.31	3.36	3.42	3.50					
15.0	3.69	3.74	3.80	3.87	3.99				
20.0	4.09	4.15	4.20	4.27	4.36	4.51			
25.0	4.53	4.59	4.64	4.70	4.78	4.90	5.09		
30.0	5.02	5.09	5.14	5.18	5.25	5.35	5.50	5.58	5.73
35.0	5.58	5.65	5.70	5.73	5.78	5.85	5.98	6.05	6.17
40.0	6.22	6.29	6.33	6.36	6.39	6.44	6.53	6.58	6.68
45.0		7.03	7.06	7.08	7.09	7.11	7.17	7.21	7.29
50.0			7.90	7.90	7.89	7.89	7.92	7.94	7.99
55.0			8.85	8.84	8.81	8.78	8.78	8.79	8.81
60.0				9.91	9.86	9.81	9.77	9.76	9.76

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	9.57	9.60	9.64	9.71					
15.0	9.86	9.91	9.96	10.03	10.13				
20.0	10.20	10.26	10.31	10.37	10.47	10.62			
25.0	10.59	10.66	10.72	10.78	10.86	10.99	11.18		
30.0	11.08	11.15	11.21	11.26	11.33	11.43	11.60	11.68	11.83
35.0	11.68	11.75	11.80	11.84	11.90	11.98	12.11	12.18	12.31
40.0	12.41	12.48	12.53	12.56	12.59	12.64	12.74	12.79	12.90
45.0		13.37	13.41	13.42	13.43	13.45	13.51	13.55	13.63
50.0			14.46	14.45	14.44	14.43	14.45	14.47	14.52
55.0			15.72	15.69	15.64	15.60	15.58	15.58	15.60
60.0				17.15	17.07	16.99	16.93	16.91	16.90

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	70.90	87.80	108.00	132.50					
15.0	70.70	87.70	108.00	132.50	161.00				
20.0	70.40	87.40	108.00	132.00	160.00	193.50			
25.0	70.00	87.00	107.50	131.50	159.50	192.50	231.00		
30.0	69.40	86.40	106.50	130.50	158.50	191.00	229.00	246.00	274.00
35.0	68.50	85.50	105.50	129.00	157.00	189.50	227.00	244.00	272.00
40.0	67.40	84.40	104.50	127.50	155.00	187.00	225.00	242.00	269.00
45.0		82.80	102.50	125.50	153.00	184.50	222.00	239.00	266.00
50.0			100.50	123.00	150.00	181.50	219.00	236.00	263.00
55.0			97.60	120.00	147.00	178.00	215.00	232.00	260.00
60.0				117.00	143.00	174.50	212.00	229.00	257.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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	3922
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