



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	11.20	13.75	16.70	20.20					
15.0	10.70	13.20	16.05	19.45	23.30				
20.0	10.15	12.60	15.40	18.60	22.30	26.60			
25.0	9.52	11.90	14.60	17.70	21.20	25.30	29.90		
30.0	8.82	11.15	13.75	16.70	20.10	23.90	28.30	30.20	33.20
35.0	8.03	10.30	12.85	15.65	18.85	22.40	26.50	28.30	31.20
40.0	7.16	9.41	11.85	14.50	17.50	20.90	24.70	26.40	29.00
45.0		8.41	10.75	13.30	16.10	19.25	22.80	24.40	26.80
50.0			9.57	12.00	14.60	17.55	20.80	22.20	24.50
55.0			8.31	10.60	13.05	15.75	18.75	20.00	22.10
60.0				9.09	11.35	13.85	16.55	17.75	19.60

50 Hz

ZB58KCE-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	2.91	2.97	3.02	3.07					
15.0	3.23	3.28	3.34	3.39	3.44				
20.0	3.58	3.63	3.69	3.74	3.79	3.84			
25.0	3.98	4.03	4.08	4.13	4.18	4.23	4.27		
30.0	4.45	4.49	4.53	4.57	4.61	4.66	4.70	4.71	4.74
35.0	4.98	5.01	5.05	5.08	5.11	5.14	5.17	5.19	5.21
40.0	5.60	5.62	5.64	5.65	5.67	5.69	5.72	5.72	5.74
45.0		6.31	6.31	6.31	6.32	6.32	6.33	6.33	6.34
50.0			7.08	7.07	7.05	7.04	7.03	7.02	7.02
55.0			7.96	7.92	7.88	7.85	7.82	7.81	7.79
60.0				8.89	8.83	8.77	8.72	8.70	8.67

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	8.90	8.94	8.97	9.01					
15.0	9.15	9.19	9.24	9.28	9.32				
20.0	9.43	9.48	9.52	9.57	9.61	9.65			
25.0	9.77	9.81	9.86	9.90	9.95	9.99	10.03		
30.0	10.18	10.22	10.26	10.30	10.34	10.38	10.42	10.43	10.46
35.0	10.69	10.72	10.75	10.78	10.81	10.84	10.87	10.89	10.91
40.0	11.30	11.32	11.34	11.36	11.38	11.40	11.42	11.43	11.44
45.0		12.06	12.06	12.06	12.06	12.07	12.07	12.07	12.08
50.0			12.92	12.90	12.88	12.87	12.85	12.85	12.84
55.0			13.94	13.90	13.86	13.82	13.78	13.77	13.75
60.0				15.08	15.01	14.94	14.88	14.85	14.81

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	63.10	77.60	95.00	115.50					
15.0	62.90	77.80	95.30	116.00	140.50				
20.0	62.30	77.50	95.40	116.00	140.50	169.50			
25.0	61.20	76.90	95.00	116.00	140.50	169.50	203.00		
30.0	59.60	75.90	94.30	115.50	140.00	169.00	202.00	217.00	242.00
35.0	57.40	74.20	93.00	114.50	139.00	168.00	201.00	216.00	241.00
40.0	54.40	71.90	91.20	113.00	137.50	166.50	200.00	215.00	240.00
45.0		68.70	88.60	110.50	136.00	164.50	198.50	213.00	238.00
50.0			85.20	108.00	133.00	162.50	196.00	211.00	236.00
55.0			80.70	104.00	130.00	159.50	194.00	209.00	234.00
60.0				99.30	126.00	156.50	191.50	207.00	233.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	22.1
Length/Width, mm	264/284
Height, mm	476
Net Weight, kg	57.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	2.51
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	65
Sound Power (MT), dBA	76
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	10.5
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	15.6
Locked Rotor Current, A	95
Winding Resistance, ohm	1.8
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	66 W External
Rotalock valves	suction and discharge
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Mounting Grommets	Hard Mounts for Paralleling
Enclosure Class	IP66 With Molded Plug

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