



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return

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	8.79	10.90	13.35	16.15					
15.0	8.35	10.35	12.65	15.35	18.40				
20.0	7.90	9.77	11.95	14.50	17.40	20.70			
25.0	7.43	9.19	11.25	13.65	16.35	19.45	23.00		
30.0	6.96	8.60	10.55	12.75	15.30	18.25	21.50	23.00	25.30
35.0	6.47	8.00	9.79	11.85	14.25	17.00	20.10	21.40	23.60
40.0	5.98	7.39	9.05	10.95	13.15	15.70	18.60	19.85	21.80
45.0	5.48	6.77	8.29	10.05	12.10	14.40	17.10	18.25	20.10
50.0		6.14	7.52	9.12	10.95	13.10	15.55	16.65	18.35
55.0			6.74	8.18	9.85	11.80	14.00	15.00	16.55
60.0				7.22	8.72	10.45	12.45	13.35	14.75

50 Hz

ZB45KCE-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	2.09	2.08	2.06	2.04					
15.0	2.39	2.37	2.35	2.33	2.31				
20.0	2.70	2.69	2.68	2.65	2.63	2.60			
25.0	3.05	3.05	3.03	3.01	2.98	2.96	2.93		
30.0	3.44	3.43	3.42	3.40	3.38	3.34	3.31	3.30	3.28
35.0	3.85	3.86	3.85	3.83	3.81	3.77	3.74	3.72	3.70
40.0	4.30	4.31	4.31	4.30	4.28	4.24	4.21	4.19	4.16
45.0	4.79	4.81	4.82	4.81	4.79	4.76	4.72	4.70	4.67
50.0		5.35	5.36	5.36	5.34	5.31	5.28	5.26	5.23
55.0			5.95	5.95	5.94	5.92	5.88	5.86	5.83
60.0				6.59	6.59	6.57	6.53	6.52	6.49

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	6.48	6.47	6.47	6.47					
15.0	6.72	6.72	6.72	6.72	6.72				
20.0	7.00	7.01	7.01	7.01	7.01	7.01			
25.0	7.33	7.35	7.35	7.35	7.35	7.35	7.34		
30.0	7.74	7.76	7.76	7.76	7.76	7.75	7.73	7.73	7.72
35.0	8.22	8.25	8.25	8.25	8.24	8.22	8.20	8.19	8.17
40.0	8.80	8.83	8.84	8.84	8.82	8.79	8.76	8.74	8.72
45.0	9.49	9.52	9.53	9.53	9.51	9.47	9.42	9.40	9.36
50.0		10.34	10.35	10.34	10.31	10.27	10.21	10.18	10.13
55.0			11.30	11.28	11.25	11.19	11.12	11.09	11.03
60.0				12.38	12.33	12.27	12.18	12.14	12.08

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	49.50	61.60	75.80	92.60					
15.0	49.00	60.90	75.00	91.60	111.00				
20.0	48.40	60.20	74.20	90.60	109.50	132.00			
25.0	47.80	59.40	73.20	89.40	108.50	130.50	156.00		
30.0	47.00	58.50	72.10	88.10	107.00	129.00	154.50	165.50	184.00
35.0	46.30	57.60	71.00	86.70	105.50	127.00	152.50	164.00	182.00
40.0	45.40	56.50	69.70	85.30	103.50	125.00	150.50	162.00	180.50
45.0	44.40	55.40	68.30	83.70	102.00	123.00	148.50	160.00	178.50
50.0		54.10	66.90	82.00	100.00	121.50	146.50	158.00	177.00
55.0			65.40	80.40	98.20	119.50	145.00	156.50	175.50
60.0				78.90	96.80	118.50	144.00	156.00	175.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	17.1
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	39.1
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
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	62
Sound Power (MT), dBA	73
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	1
Max. Internal Free Volume, l	5.90
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
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	13.1
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermodisk

ACCESSORIES OPTIONAL

Oil Control System	ALCO Trax-Oil OM3
Crankcase Heater	70 W External
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
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