



Minimum Evaporating Temp. With:

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

Suction Superheat 10.0K

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	3.49	4.36	5.42	6.68				
15.0	3.34	4.20	5.24	6.47				
20.0	3.16	4.01	5.03	6.23	7.64			
25.0	2.97	3.80	4.79	5.95	7.32	8.90		
30.0	2.75	3.56	4.52	5.64	6.96	8.49	10.25	11.00
35.0	2.52	3.30	4.22	5.30	6.57	8.03	9.71	10.45
40.0		3.03	3.91	4.94	6.14	7.54	9.14	9.85
45.0			3.58	4.55	5.69	7.01	8.54	9.22
50.0				4.15	5.21	6.46	7.90	8.54
55.0				3.73	4.72	5.88	7.24	7.84

50 Hz

ZB21KCE-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	0.99	0.94	0.93	0.95				
15.0	1.12	1.06	1.06	1.08				
20.0	1.26	1.21	1.21	1.23	1.26			
25.0	1.41	1.38	1.38	1.40	1.42	1.44		
30.0	1.59	1.56	1.56	1.59	1.62	1.63	1.61	1.59
35.0	1.80	1.76	1.78	1.80	1.83	1.84	1.82	1.79
40.0		2.00	2.01	2.04	2.07	2.08	2.05	2.02
45.0			2.28	2.31	2.34	2.35	2.31	2.29
50.0				2.62	2.64	2.65	2.61	2.58
55.0				2.95	2.98	2.98	2.94	2.91

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	3.00	2.98	2.94	2.91				
15.0	3.11	3.09	3.07	3.04				
20.0	3.22	3.22	3.20	3.18	3.16			
25.0	3.35	3.36	3.35	3.33	3.32	3.31		
30.0	3.52	3.54	3.53	3.52	3.50	3.50	3.51	3.52
35.0	3.72	3.75	3.75	3.74	3.72	3.72	3.72	3.73
40.0		4.01	4.01	4.00	3.99	3.98	3.98	3.99
45.0			4.33	4.32	4.31	4.29	4.29	4.29
50.0				4.71	4.69	4.67	4.66	4.66
55.0				5.17	5.14	5.11	5.09	5.09

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	18.95	23.30	28.50	34.60				
15.0	18.85	23.40	28.70	34.90				
20.0	18.65	23.30	28.70	35.00	42.20			
25.0	18.30	23.00	28.50	34.90	42.20	50.60		
30.0	17.85	22.60	28.20	34.60	42.00	50.40	59.90	64.00
35.0	17.25	22.10	27.70	34.20	41.60	50.00	59.60	63.70
40.0		21.50	27.10	33.60	41.00	49.50	59.00	63.20
45.0			26.40	32.80	40.20	48.70	58.30	62.40
50.0				31.90	39.30	47.70	57.30	61.40
55.0				30.80	38.10	46.50	56.10	60.20

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	8.61
Length/Width, mm	243/244
Height, mm	391
Net Weight, kg	27.3
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.24
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	58
Sound Power (MT), dBA	69
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	2.50
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	2107
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	6
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
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
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