



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	2.43	3.12	3.88	4.76				
15.0	2.31	2.98	3.71	4.56				
20.0	2.18	2.82	3.53	4.35	5.29			
25.0	2.04	2.66	3.34	4.12	5.03	6.10		
30.0	1.88	2.49	3.14	3.88	4.75	5.77	6.99	7.53
35.0	1.73	2.30	2.93	3.63	4.46	5.43	6.60	7.12
40.0		2.12	2.71	3.38	4.16	5.09	6.20	6.70
45.0			2.48	3.11	3.85	4.73	5.79	6.27
50.0				2.85	3.54	4.37	5.38	5.84
55.0				2.58	3.23	4.01	4.96	5.40

50 Hz

ZB15KCE-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	0.72	0.71	0.72	0.73				
15.0	0.81	0.80	0.81	0.82				
20.0	0.91	0.91	0.91	0.92	0.94			
25.0	1.03	1.02	1.02	1.03	1.05	1.06		
30.0	1.17	1.16	1.16	1.16	1.18	1.18	1.18	1.18
35.0	1.32	1.31	1.31	1.32	1.32	1.33	1.33	1.32
40.0		1.49	1.48	1.48	1.49	1.49	1.49	1.48
45.0			1.68	1.68	1.68	1.68	1.68	1.67
50.0				1.90	1.90	1.90	1.88	1.88
55.0				2.16	2.15	2.14	2.13	2.12

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	2.00	2.00	2.00	2.01				
15.0	2.09	2.09	2.10	2.11				
20.0	2.18	2.19	2.20	2.22	2.24			
25.0	2.30	2.30	2.32	2.35	2.37	2.38		
30.0	2.44	2.44	2.46	2.49	2.51	2.53	2.53	2.53
35.0	2.62	2.61	2.63	2.65	2.68	2.70	2.71	2.70
40.0		2.82	2.83	2.85	2.88	2.90	2.90	2.90
45.0			3.08	3.09	3.11	3.13	3.13	3.13
50.0				3.38	3.39	3.40	3.40	3.39
55.0				3.72	3.72	3.72	3.71	3.71

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	13.20	16.65	20.40	24.70				
15.0	13.05	16.55	20.30	24.60				
20.0	12.85	16.35	20.20	24.40	29.30			
25.0	12.55	16.15	19.90	24.10	29.00	34.60		
30.0	12.20	15.80	19.60	23.80	28.70	34.30	40.90	43.80
35.0	11.80	15.45	19.20	23.40	28.20	33.90	40.50	43.40
40.0		15.00	18.80	23.00	27.80	33.40	40.00	43.00
45.0			18.30	22.50	27.30	32.90	39.50	42.50
50.0				21.90	26.70	32.30	39.00	42.00
55.0				21.30	26.10	31.70	38.40	41.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	5.92
Length/Width, mm	241/241
Height, mm	382
Net Weight, kg	25.3
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	0.74
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	55
Sound Power (MT), dBA	66
Sound Power with Sound Shell (MT), dBA	56
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	4.9
Locked Rotor Current, A	26
Winding Resistance, ohm	7.1
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