



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	2.77	3.46	4.30	5.29				
15.0	2.65	3.33	4.16	5.13				
20.0	2.51	3.18	3.99	4.94	6.06			
25.0	2.35	3.01	3.80	4.72	5.81	7.06		
30.0	2.18	2.82	3.58	4.48	5.52	6.73	8.11	8.72
35.0	2.00	2.62	3.35	4.21	5.21	6.37	7.70	8.28
40.0		2.41	3.10	3.92	4.87	5.98	7.25	7.81
45.0			2.84	3.61	4.51	5.56	6.77	7.31
50.0				3.29	4.13	5.12	6.27	6.77
55.0				2.95	3.74	4.66	5.74	6.22

50 Hz

ZB19KCE-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	0.76	0.72	0.72	0.73				
15.0	0.86	0.82	0.82	0.83				
20.0	0.96	0.93	0.93	0.95	0.97			
25.0	1.08	1.06	1.06	1.08	1.10	1.11		
30.0	1.23	1.20	1.20	1.22	1.25	1.25	1.24	1.22
35.0	1.38	1.36	1.36	1.38	1.40	1.42	1.40	1.38
40.0		1.54	1.55	1.57	1.59	1.60	1.58	1.56
45.0			1.76	1.78	1.80	1.80	1.78	1.76
50.0				2.01	2.03	2.04	2.01	1.98
55.0				2.27	2.29	2.29	2.26	2.24

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	2.31	2.29	2.26	2.24				
15.0	2.39	2.38	2.36	2.34				
20.0	2.48	2.47	2.46	2.44	2.43			
25.0	2.58	2.59	2.58	2.56	2.55	2.55		
30.0	2.71	2.72	2.72	2.71	2.69	2.69	2.70	2.71
35.0	2.86	2.88	2.88	2.88	2.86	2.86	2.86	2.87
40.0		3.08	3.09	3.08	3.07	3.06	3.06	3.07
45.0			3.33	3.33	3.31	3.30	3.30	3.30
50.0				3.62	3.61	3.59	3.58	3.58
55.0				3.97	3.96	3.93	3.92	3.91

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	15.05	18.50	22.60	27.50				
15.0	14.95	18.50	22.70	27.70				
20.0	14.80	18.45	22.70	27.70	33.50			
25.0	14.50	18.25	22.60	27.70	33.50	40.10		
30.0	14.15	17.95	22.40	27.50	33.30	40.00	47.50	50.70
35.0	13.70	17.55	22.00	27.10	33.00	39.70	47.20	50.50
40.0		17.05	21.50	26.70	32.50	39.20	46.80	50.10
45.0			20.90	26.00	31.90	38.60	46.20	49.50
50.0				25.30	31.10	37.80	45.40	48.70
55.0				24.40	30.20	36.90	44.50	47.80

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	6.83
Length/Width, mm	242/242
Height, mm	389
Net Weight, kg	25.8
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.12
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 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	5.4
Locked Rotor Current, A	32
Winding Resistance, ohm	5.8
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Oil Control System	ALCO Trax-Oil OM3

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