



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	4.92	6.14	7.59	9.31				
15.0	4.68	5.88	7.30	8.98				
20.0	4.41	5.58	6.97	8.60	10.50			
25.0	4.11	5.25	6.60	8.18	10.05	12.15		
30.0	3.79	4.90	6.20	7.73	9.51	11.60	13.95	15.00
35.0	3.45	4.52	5.77	7.24	8.96	10.95	13.25	14.25
40.0		4.12	5.32	6.73	8.38	10.30	12.50	13.50
45.0			4.85	6.19	7.76	9.60	11.70	12.65
50.0				5.63	7.12	8.87	10.90	11.80
55.0				5.06	6.46	8.12	10.05	10.90

50 Hz

ZB30KCE-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	1.33	1.30	1.28	1.28				
15.0	1.50	1.47	1.46	1.46				
20.0	1.70	1.66	1.64	1.64	1.65			
25.0	1.92	1.88	1.86	1.86	1.86	1.87		
30.0	2.17	2.13	2.11	2.10	2.10	2.11	2.11	2.11
35.0	2.47	2.42	2.39	2.38	2.37	2.37	2.37	2.37
40.0		2.76	2.73	2.70	2.69	2.68	2.67	2.67
45.0			3.11	3.08	3.05	3.03	3.02	3.01
50.0				3.51	3.47	3.44	3.41	3.40
55.0				4.01	3.96	3.91	3.87	3.85

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	4.54	4.50	4.48	4.48				
15.0	4.75	4.70	4.69	4.69				
20.0	4.99	4.95	4.93	4.93	4.94			
25.0	5.28	5.24	5.22	5.21	5.22	5.23		
30.0	5.65	5.60	5.57	5.56	5.56	5.56	5.57	5.57
35.0	6.10	6.03	5.99	5.97	5.96	5.96	5.96	5.95
40.0		6.56	6.51	6.47	6.45	6.43	6.42	6.41
45.0			7.13	7.07	7.03	7.00	6.97	6.96
50.0				7.79	7.73	7.68	7.62	7.60
55.0				8.63	8.55	8.47	8.40	8.37

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	26.70	32.80	40.00	48.30				
15.0	26.40	32.70	39.90	48.40				
20.0	26.00	32.30	39.70	48.30	58.10			
25.0	25.40	31.80	39.30	48.00	57.90	69.10		
30.0	24.60	31.10	38.70	47.40	57.40	68.80	81.60	87.20
35.0	23.60	30.30	37.90	46.70	56.80	68.30	81.30	86.90
40.0		29.20	36.90	45.80	56.00	67.60	80.70	86.40
45.0			35.70	44.70	54.90	66.60	79.90	85.70
50.0				43.30	53.70	65.50	79.00	84.90
55.0				41.80	52.20	64.20	77.90	83.90

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	11.7
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	35.4
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	59
Sound Power (MT), dBA	70
Sound Power with Sound Shell (MT), dBA	60
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	4.30
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	10.3
Locked Rotor Current, A	49.3
Winding Resistance, ohm	3.7
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