



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	4.55	5.84	7.28	8.94				
15.0	4.33	5.57	6.96	8.55				
20.0	4.08	5.29	6.62	8.15	9.93			
25.0	3.81	4.98	6.26	7.72	9.43	11.45		
30.0	3.53	4.65	5.88	7.28	8.91	10.85	13.10	14.15
35.0	3.23	4.32	5.49	6.81	8.36	10.20	12.40	13.35
40.0		3.96	5.08	6.34	7.81	9.55	11.65	12.60
45.0			4.66	5.85	7.24	8.89	10.90	11.80
50.0				5.35	6.66	8.22	10.10	10.95
55.0				4.84	6.07	7.54	9.32	10.15

50 Hz

ZB29KCE-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	1.25	1.24	1.25	1.27				
15.0	1.41	1.40	1.41	1.43				
20.0	1.58	1.58	1.59	1.61	1.64			
25.0	1.78	1.78	1.80	1.82	1.84	1.85		
30.0	2.01	2.01	2.02	2.04	2.06	2.08	2.08	2.07
35.0	2.26	2.26	2.28	2.30	2.32	2.33	2.33	2.32
40.0		2.56	2.57	2.59	2.61	2.62	2.62	2.61
45.0			2.90	2.92	2.94	2.95	2.94	2.93
50.0				3.29	3.31	3.32	3.31	3.30
55.0				3.70	3.72	3.73	3.72	3.70

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	3.54	3.54	3.53	3.52				
15.0	3.67	3.67	3.68	3.68				
20.0	3.83	3.84	3.85	3.86	3.87			
25.0	4.02	4.04	4.06	4.08	4.09	4.10		
30.0	4.26	4.29	4.32	4.34	4.36	4.37	4.38	4.38
35.0	4.55	4.59	4.62	4.64	4.67	4.68	4.69	4.70
40.0		4.94	4.97	5.00	5.03	5.05	5.06	5.06
45.0			5.39	5.43	5.45	5.47	5.49	5.49
50.0				5.92	5.94	5.96	5.98	5.98
55.0				6.49	6.51	6.53	6.54	6.54

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	24.70	31.20	38.30	46.30				
15.0	24.50	31.00	38.10	46.10				
20.0	24.10	30.60	37.70	45.70	54.90			
25.0	23.50	30.20	37.30	45.30	54.40	65.00		
30.0	22.90	29.60	36.70	44.70	53.80	64.40	76.70	82.20
35.0	22.10	28.90	36.00	44.00	53.00	63.60	76.00	81.50
40.0		28.10	35.20	43.10	52.20	62.70	75.10	80.70
45.0			34.30	42.20	51.20	61.70	74.20	79.80
50.0				41.10	50.10	60.70	73.20	78.80
55.0				40.00	49.00	59.60	72.20	77.90

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	11.4
Length/Width, mm	246/246
Height, mm	423
Net Weight, kg	28.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.45
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 (19)
Sound Pressure @ 1m (MT), dBA	58
Sound Power (MT), dBA	69
Sound Power with Sound Shell (MT), dBA	59
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	2.90
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Refrigerant's GWP	2107
Refrigerant's classification	A1

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

Maximum Operating Current, A	10
Locked Rotor Current, A	50
Winding Resistance, ohm	3.88
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

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