



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

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
10.0	5.67	6.97	8.48						
15.0	5.41	6.64	8.08	9.75					
20.0	5.15	6.32	7.68	9.26	11.05				
25.0	4.89	5.99	7.27	8.76	10.45	12.40			
30.0	4.61	5.65	6.85	8.25	9.84	11.65	13.70	14.60	16.00
35.0	4.32	5.29	6.42	7.72	9.21	10.90	12.80	13.65	14.95
40.0	4.02	4.92	5.97	7.18	8.57	10.15	11.95	12.70	13.95
45.0	3.69	4.53	5.50	6.62	7.90	9.36	11.00	11.75	12.85
50.0		4.12	5.01	6.03	7.21	8.55	10.05	10.75	11.80
55.0			4.49	5.42	6.49	7.71	9.10	9.71	10.70
60.0				4.78	5.74	6.85	8.10	8.66	9.54

50 Hz

ZB29KCE-TFD

R404A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	1.35	1.37	1.38						
15.0	1.54	1.56	1.57	1.58					
20.0	1.74	1.76	1.78	1.79	1.80				
25.0	1.98	2.00	2.02	2.03	2.03	2.03			
30.0	2.25	2.27	2.28	2.29	2.30	2.30	2.28	2.27	2.26
35.0	2.54	2.56	2.58	2.59	2.60	2.59	2.58	2.57	2.56
40.0	2.88	2.89	2.91	2.92	2.93	2.92	2.91	2.90	2.89
45.0	3.25	3.27	3.28	3.29	3.30	3.29	3.28	3.27	3.26
50.0		3.68	3.69	3.70	3.71	3.70	3.69	3.68	3.67
55.0			4.15	4.16	4.16	4.16	4.14	4.14	4.12
60.0				4.66	4.66	4.66	4.64	4.63	4.62

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
10.0	3.83	3.86	3.89						
15.0	3.99	4.02	4.05	4.07					
20.0	4.18	4.21	4.24	4.26	4.28				
25.0	4.41	4.44	4.47	4.49	4.51	4.51			
30.0	4.70	4.72	4.75	4.77	4.78	4.79	4.78	4.77	4.75
35.0	5.03	5.06	5.08	5.10	5.11	5.12	5.11	5.10	5.08
40.0	5.43	5.45	5.47	5.49	5.50	5.50	5.49	5.48	5.46
45.0	5.88	5.91	5.93	5.95	5.96	5.96	5.94	5.93	5.91
50.0		6.43	6.45	6.47	6.48	6.48	6.46	6.45	6.43
55.0			7.05	7.07	7.08	7.07	7.06	7.05	7.03
60.0				7.75	7.75	7.75	7.73	7.72	7.70

50 Hz

ZB29KCE-TFD

R404A Dew Point

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
10.0	31.90	39.40	48.20						
15.0	31.70	39.20	47.90	58.20					
20.0	31.60	38.90	47.60	57.80	69.70				
25.0	31.40	38.70	47.30	57.40	69.20	82.90			
30.0	31.20	38.40	47.00	57.00	68.70	82.30	98.10	105.00	116.50
35.0	30.90	38.10	46.50	56.40	68.00	81.60	97.40	104.50	116.00
40.0	30.50	37.60	46.00	55.80	67.40	80.80	96.60	103.50	115.00
45.0	30.00	37.10	45.40	55.10	66.60	80.00	95.70	103.00	114.50
50.0		36.30	44.60	54.30	65.70	79.10	94.90	102.00	113.50
55.0			43.60	53.30	64.70	78.20	94.20	101.50	113.00
60.0				52.20	63.80	77.40	93.80	101.00	113.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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	60
Sound Power (MT), dBA	71
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	3922
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