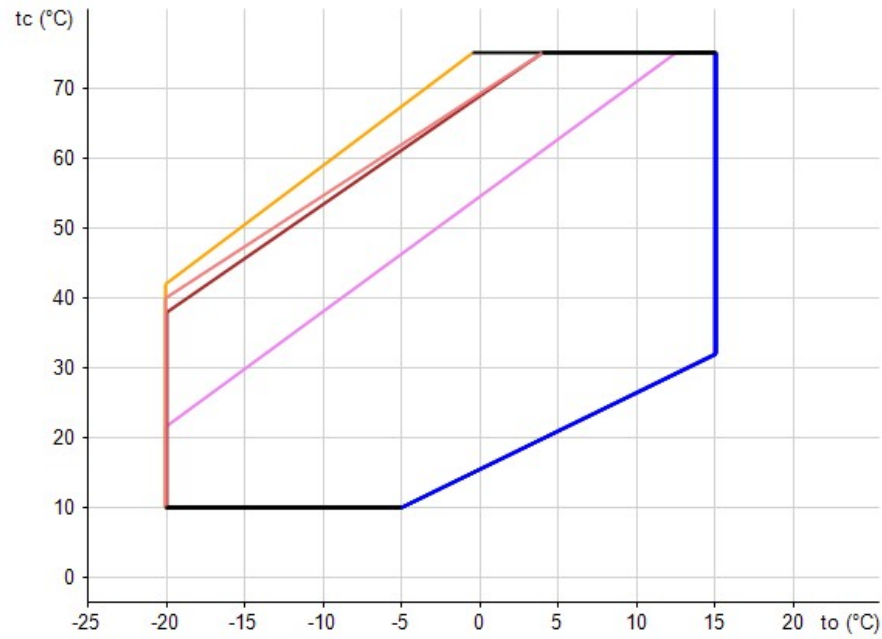




Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
 — 10 K Suction Superheat
 — 20 °C Suction Gas Return
- 25 °C Suction Gas Return with Voltage limit $\pm 0\%$
- Maximum Evaporating Temperature

50 Hz	ZB30KCE-TFD	R134a
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Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	3.78	4.75	5.94	7.35						
15.0	3.62	4.57	5.73	7.11						
20.0	3.45	4.38	5.51	6.85	8.43					
25.0	3.29	4.18	5.28	6.58	8.11	9.89	10.65			
30.0	3.12	3.98	5.04	6.30	7.78	9.50	10.25	11.50	12.60	
35.0	2.94	3.78	4.79	6.01	7.44	9.10	9.83	11.00	12.05	13.20
40.0	2.77	3.57	4.54	5.71	7.08	8.68	9.39	10.50	11.55	12.65
45.0		3.36	4.29	5.40	6.71	8.24	8.92	10.00	11.00	12.05
50.0		3.15	4.02	5.08	6.33	7.80	8.45	9.50	10.45	11.45
55.0			3.76	4.76	5.94	7.34	7.96	8.96	9.86	10.80
60.0				4.43	5.55	6.87	7.46	8.41	9.27	10.20
65.0				4.09	5.14	6.39	6.94	7.84	8.66	9.53
70.0					4.73	5.90	6.42	7.27	8.04	8.87
75.0					4.32	5.40	5.89	6.69	7.41	8.20

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	0.88	0.88	0.88	0.89						
15.0	1.00	1.00	1.00	1.01						
20.0	1.12	1.12	1.12	1.14	1.14					
25.0	1.26	1.26	1.26	1.27	1.28	1.30	1.30			
30.0	1.40	1.40	1.40	1.42	1.42	1.44	1.45	1.46	1.48	
35.0	1.55	1.56	1.56	1.58	1.59	1.60	1.61	1.62	1.63	1.64
40.0	1.72	1.73	1.74	1.76	1.76	1.78	1.78	1.80	1.80	1.82
45.0		1.92	1.94	1.95	1.96	1.98	1.98	2.00	2.00	2.01
50.0		2.13	2.15	2.17	2.18	2.20	2.21	2.21	2.22	2.23
55.0			2.38	2.41	2.43	2.45	2.45	2.46	2.47	2.47
60.0				2.68	2.70	2.72	2.73	2.74	2.74	2.75
65.0				2.97	3.00	3.03	3.03	3.04	3.05	3.06
70.0					3.33	3.36	3.37	3.38	3.39	3.40
75.0					3.70	3.73	3.74	3.76	3.77	3.78

50 Hz ZB30KCE-TFD R134a

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	3.11	3.08	3.06	3.06						
15.0	3.19	3.16	3.15	3.14						
20.0	3.28	3.25	3.24	3.24	3.25					
25.0	3.37	3.36	3.35	3.35	3.36	3.38	3.39			
30.0	3.49	3.48	3.47	3.47	3.48	3.50	3.51	3.53	3.54	
35.0	3.62	3.62	3.62	3.63	3.64	3.65	3.66	3.67	3.68	3.70
40.0	3.78	3.79	3.80	3.80	3.82	3.83	3.84	3.85	3.86	3.87
45.0		3.98	4.00	4.01	4.03	4.04	4.05	4.06	4.07	4.08
50.0		4.20	4.23	4.26	4.28	4.29	4.30	4.31	4.32	4.32
55.0			4.51	4.54	4.56	4.58	4.59	4.60	4.61	4.61
60.0				4.86	4.90	4.92	4.93	4.94	4.95	4.95
65.0				5.23	5.27	5.31	5.32	5.33	5.34	5.34
70.0					5.70	5.74	5.76	5.77	5.78	5.79
75.0					6.19	6.24	6.25	6.27	6.28	6.29

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	19.60	24.20	29.70	36.20						
15.0	19.45	24.10	29.70	36.20						
20.0	19.25	24.00	29.60	36.20	43.80					
25.0	19.05	23.80	29.50	36.10	43.70	52.40	56.20			
30.0	18.85	23.60	29.30	36.00	43.60	52.30	56.10	62.20	67.50	
35.0	18.60	23.40	29.10	35.80	43.50	52.20	56.00	62.10	67.40	73.10
40.0	18.40	23.20	28.90	35.50	43.20	52.00	55.80	61.80	67.20	72.90
45.0		22.90	28.60	35.20	42.90	51.70	55.50	61.60	66.90	72.60
50.0		22.60	28.30	34.90	42.50	51.30	55.10	61.20	66.60	72.30
55.0			27.90	34.50	42.10	50.80	54.60	60.70	66.10	71.80
60.0				34.00	41.60	50.20	54.10	60.10	65.50	71.30
65.0				33.50	41.00	49.60	53.40	59.50	64.90	70.60
70.0					40.30	48.90	52.70	58.80	64.20	69.90
75.0					39.60	48.10	51.90	58.00	63.40	69.20

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	65
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	1430
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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09