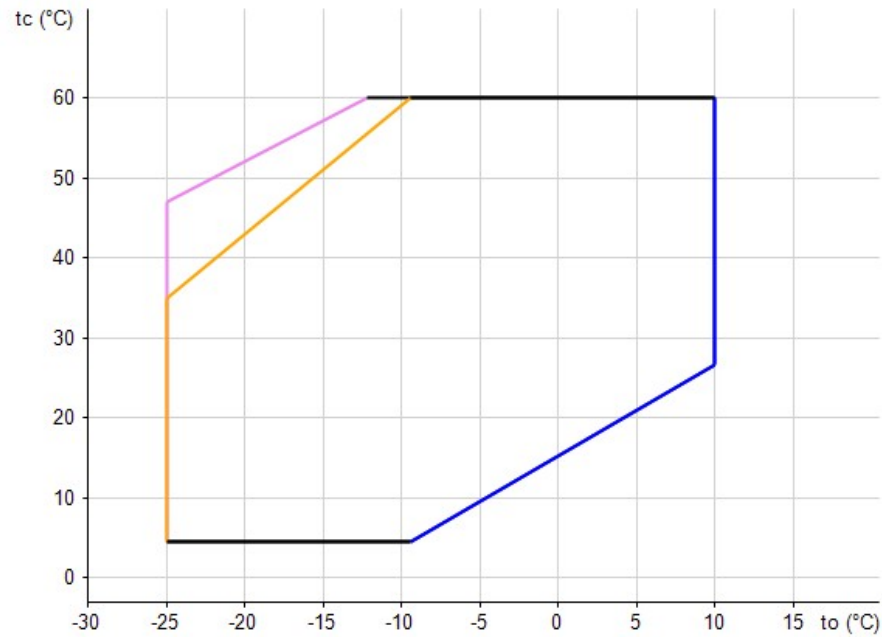


50 Hz

ZB21KCE-TFD

R449A Dew Point



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 18.3°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
4.0	3.71	4.64	5.78	7.16					
5.0	3.69	4.62	5.76	7.13					
10.0	3.55	4.45	5.55	6.88	8.44				
15.0	3.40	4.28	5.35	6.62	8.12				
20.0	3.26	4.11	5.14	6.36	7.79	9.46			
25.0	3.10	3.93	4.92	6.09	7.45	9.04	10.85	11.70	
30.0	2.94	3.75	4.69	5.80	7.10	8.61	10.35	11.10	12.35
35.0	2.77	3.55	4.45	5.50	6.73	8.16	9.80	10.50	11.70
40.0		3.33	4.19	5.19	6.35	7.69	9.23	9.91	11.00
45.0			3.92	4.86	5.94	7.20	8.65	9.28	10.30
50.0			3.62	4.50	5.52	6.69	8.03	8.62	9.58
55.0				4.12	5.06	6.14	7.39	7.94	8.82
60.0					4.58	5.57	6.71	7.22	8.03

50 Hz

ZB21KCE-TFD

R449A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	0.87	0.91	0.95	1.00					
5.0	0.88	0.92	0.96	1.01					
10.0	0.97	1.01	1.04	1.08	1.12				
15.0	1.08	1.11	1.14	1.18	1.22				
20.0	1.23	1.25	1.27	1.30	1.34	1.38			
25.0	1.39	1.40	1.42	1.44	1.48	1.51	1.55	1.57	
30.0	1.58	1.59	1.60	1.62	1.64	1.68	1.71	1.72	1.75
35.0	1.80	1.80	1.82	1.82	1.84	1.87	1.90	1.92	1.94
40.0		2.05	2.06	2.07	2.08	2.10	2.13	2.14	2.16
45.0			2.34	2.34	2.35	2.37	2.39	2.40	2.41
50.0			2.66	2.66	2.66	2.67	2.69	2.70	2.71
55.0				3.01	3.01	3.02	3.03	3.04	3.05
60.0					3.41	3.41	3.42	3.42	3.43

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
4.0	2.75	2.79	2.83	2.87					
5.0	2.76	2.79	2.83	2.87					
10.0	2.80	2.83	2.87	2.91	2.95				
15.0	2.90	2.92	2.96	3.00	3.04				
20.0	3.05	3.07	3.10	3.14	3.17	3.22			
25.0	3.25	3.27	3.29	3.32	3.36	3.40	3.44	3.46	
30.0	3.50	3.51	3.53	3.55	3.58	3.62	3.66	3.67	3.70
35.0	3.78	3.79	3.80	3.82	3.85	3.88	3.91	3.93	3.95
40.0		4.10	4.11	4.12	4.14	4.17	4.20	4.21	4.23
45.0			4.45	4.46	4.47	4.49	4.52	4.53	4.54
50.0			4.82	4.82	4.82	4.84	4.85	4.86	4.88
55.0				5.20	5.20	5.20	5.21	5.22	5.23
60.0					5.59	5.58	5.59	5.59	5.60

50 Hz

ZB21KCE-TFD

R449A 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
4.0	16.60	20.80	26.10	32.50					
5.0	16.60	20.80	26.10	32.50					
10.0	16.50	20.80	26.00	32.40	40.00				
15.0	16.35	20.70	26.00	32.30	39.90				
20.0	16.25	20.60	25.90	32.20	39.80	48.70			
25.0	16.10	20.50	25.80	32.10	39.60	48.40	58.90	63.60	
30.0	15.90	20.30	25.60	31.90	39.30	48.10	58.50	63.10	70.70
35.0	15.65	20.10	25.40	31.70	39.00	47.80	58.10	62.70	70.20
40.0		19.85	25.10	31.30	38.70	47.30	57.50	62.10	69.50
45.0			24.70	30.90	38.20	46.70	56.80	61.40	68.80
50.0			24.20	30.30	37.50	46.00	56.00	60.50	67.90
55.0				29.60	36.70	45.10	55.10	59.50	66.90
60.0					35.70	44.00	53.90	58.40	65.70

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	8.61
Length/Width, mm	243/244
Height, mm	391
Net Weight, kg	27.3
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.24
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	58
Sound Power (MT), dBA	69
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	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	7.2
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
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