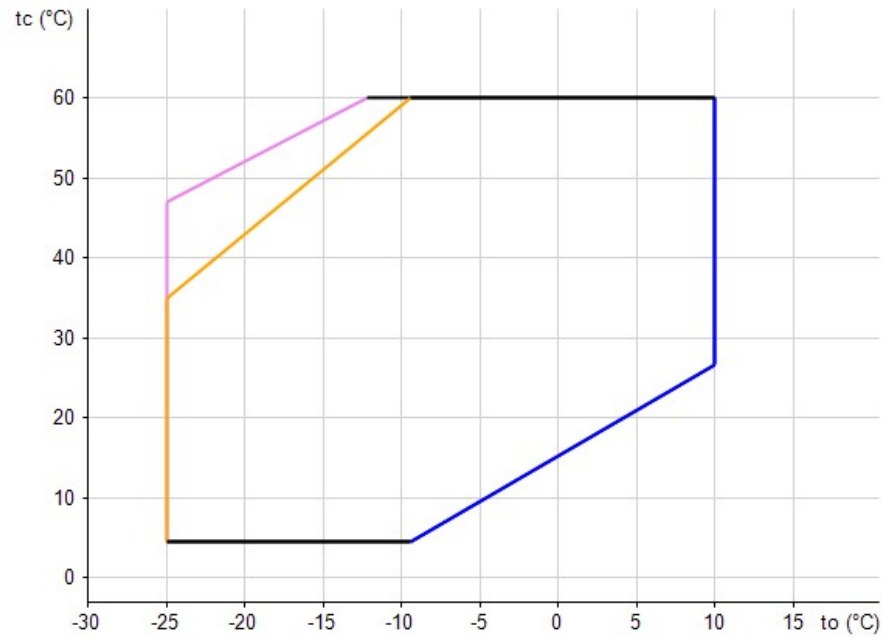


50 Hz

ZBD45KCE-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	7.21	8.98	11.15	13.85					
5.0	7.18	8.94	11.10	13.80					
10.0	6.90	8.62	10.70	13.25	16.35				
15.0	6.63	8.32	10.35	12.80	15.70				
20.0	6.36	8.02	9.98	12.30	15.05	18.35			
25.0	6.08	7.72	9.61	11.85	14.45	17.55	21.20	22.80	
30.0	5.77	7.39	9.23	11.35	13.85	16.75	20.20	21.70	24.20
35.0	5.43	7.04	8.83	10.85	13.20	15.95	19.20	20.60	22.90
40.0		6.64	8.38	10.35	12.55	15.15	18.15	19.50	21.70
45.0			7.89	9.76	11.85	14.30	17.10	18.35	20.40
50.0			7.33	9.12	11.10	13.40	16.00	17.15	19.00
55.0				8.42	10.30	12.40	14.85	15.90	17.65
60.0					9.41	11.40	13.60	14.60	16.20

50 Hz

ZBD45KCE-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	1.80	1.98	2.21	2.48					
5.0	1.81	1.99	2.21	2.48					
10.0	1.91	2.08	2.28	2.52	2.80				
15.0	2.04	2.20	2.38	2.60	2.85				
20.0	2.20	2.36	2.53	2.73	2.95	3.23			
25.0	2.38	2.55	2.72	2.91	3.11	3.35	3.64	3.77	
30.0	2.60	2.78	2.96	3.13	3.33	3.55	3.80	3.92	4.11
35.0	2.85	3.05	3.24	3.42	3.60	3.80	4.03	4.13	4.30
40.0		3.36	3.56	3.75	3.93	4.12	4.33	4.43	4.57
45.0			3.93	4.14	4.33	4.51	4.71	4.79	4.93
50.0			4.35	4.58	4.78	4.97	5.16	5.24	5.36
55.0				5.08	5.30	5.50	5.69	5.76	5.88
60.0					5.88	6.09	6.29	6.37	6.48

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	4.63	4.81	5.04	5.34					
5.0	4.64	4.82	5.04	5.34					
10.0	4.74	4.91	5.12	5.38	5.72				
15.0	4.87	5.04	5.23	5.47	5.78				
20.0	5.03	5.21	5.40	5.62	5.90	6.24			
25.0	5.23	5.42	5.62	5.84	6.09	6.40	6.77	6.95	
30.0	5.47	5.69	5.90	6.12	6.36	6.65	6.99	7.14	7.40
35.0	5.76	6.02	6.25	6.48	6.72	6.99	7.30	7.44	7.67
40.0		6.41	6.67	6.92	7.17	7.43	7.72	7.85	8.06
45.0			7.17	7.45	7.71	7.97	8.25	8.37	8.56
50.0			7.75	8.06	8.35	8.62	8.90	9.02	9.20
55.0				8.78	9.10	9.39	9.67	9.79	9.97
60.0					9.96	10.28	10.58	10.70	10.87

50 Hz

ZBD45KCE-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	32.30	40.40	50.40	62.90					
5.0	32.30	40.30	50.40	62.80					
10.0	32.00	40.20	50.20	62.50	77.50				
15.0	31.90	40.20	50.20	62.40	77.10				
20.0	31.70	40.20	50.20	62.30	76.90	94.50			
25.0	31.50	40.20	50.30	62.40	76.80	94.10	115.00	124.00	
30.0	31.20	40.20	50.40	62.50	76.70	93.80	114.00	123.50	138.50
35.0	30.70	40.00	50.40	62.50	76.60	93.50	113.50	122.50	137.50
40.0		39.60	50.20	62.40	76.50	93.20	113.00	122.00	137.00
45.0			49.80	62.10	76.20	92.70	112.50	121.50	136.00
50.0			49.00	61.50	75.60	92.10	111.50	120.50	135.00
55.0				60.40	74.70	91.20	110.50	119.50	134.00
60.0					73.40	90.00	109.50	118.00	132.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	17.1
Length/Width, mm	241/246
Height, mm	481
Net Weight, kg	39.9
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.89
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	61
Sound Power (MT), dBA	72
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Low Side Internal Free Volume, l	6.3
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	6.80
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	12.3
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	NTC sensor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Mounting Grommets	Hard Mounts for Paralleling
Solenoid valve	Standard
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Valve Coil	24V AC
Solenoid Valve Kit	220 V Ac 12" lead Length
Solenoid Valve Kit	24 V Ac 12" lead Length
Digital Tubing Kit	220 V 0.3m Rotalock
Digital Tubing Kit	24 V 0.3m Rotalock
Digital Control Kit	EC2-552
Digital Control Kit	EC3-652
Digital Driver	EC3-D13

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