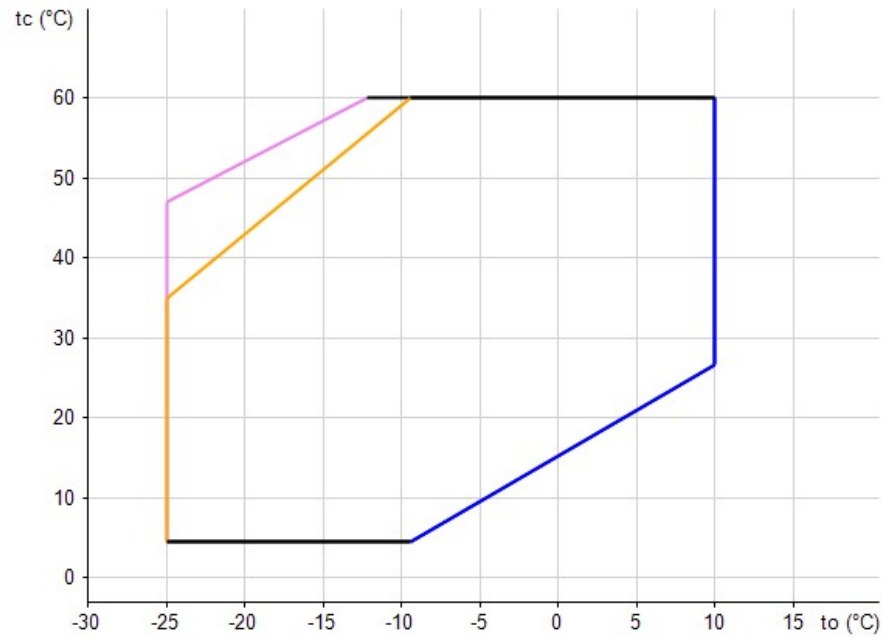




Minimum Evaporating Temp. With:

- 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	6.12	7.58	9.33	11.40					
5.0	6.09	7.56	9.30	11.35					
10.0	5.89	7.34	9.06	11.10	13.45				
15.0	5.66	7.10	8.79	10.75	13.10				
20.0	5.42	6.83	8.49	10.40	12.65	15.25			
25.0	5.15	6.54	8.15	10.00	12.20	14.70	17.60	18.85	
30.0	4.86	6.23	7.79	9.60	11.70	14.10	16.85	18.10	20.00
35.0	4.56	5.89	7.40	9.14	11.15	13.45	16.10	17.25	19.15
40.0		5.53	6.99	8.66	10.55	12.75	15.30	16.40	18.20
45.0			6.55	8.14	9.96	12.05	14.45	15.50	17.20
50.0			6.09	7.59	9.32	11.30	13.55	14.55	16.15
55.0				7.02	8.64	10.50	12.65	13.60	15.10
60.0					7.94	9.67	11.65	12.55	13.95

50 Hz

ZBD38KCE-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	1.54	1.70	1.91	2.18					
5.0	1.54	1.70	1.91	2.17					
10.0	1.62	1.77	1.95	2.17	2.46				
15.0	1.73	1.86	2.03	2.22	2.47				
20.0	1.86	2.00	2.15	2.32	2.53	2.79			
25.0	2.03	2.16	2.30	2.46	2.65	2.88	3.16	3.29	
30.0	2.21	2.36	2.50	2.65	2.82	3.02	3.27	3.38	3.57
35.0	2.43	2.59	2.74	2.89	3.05	3.23	3.44	3.54	3.70
40.0		2.86	3.02	3.18	3.33	3.49	3.68	3.77	3.91
45.0			3.35	3.51	3.67	3.82	4.00	4.07	4.20
50.0			3.71	3.89	4.06	4.21	4.38	4.45	4.56
55.0				4.32	4.50	4.67	4.83	4.89	4.99
60.0					5.00	5.18	5.34	5.41	5.51

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	4.66	4.75	4.90	5.12					
5.0	4.67	4.76	4.90	5.12					
10.0	4.72	4.80	4.93	5.12	5.38				
15.0	4.78	4.87	4.99	5.16	5.39				
20.0	4.87	4.97	5.09	5.24	5.44	5.72			
25.0	4.99	5.11	5.23	5.38	5.56	5.80	6.12	6.27	
30.0	5.14	5.28	5.42	5.57	5.74	5.96	6.24	6.38	6.60
35.0	5.33	5.51	5.67	5.82	5.99	6.20	6.45	6.57	6.77
40.0		5.79	5.97	6.14	6.32	6.52	6.75	6.85	7.03
45.0			6.34	6.54	6.72	6.92	7.14	7.24	7.40
50.0			6.78	7.01	7.21	7.41	7.63	7.72	7.87
55.0				7.56	7.79	8.01	8.22	8.31	8.46
60.0					8.46	8.70	8.93	9.02	9.16

50 Hz

ZBD38KCE-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	27.40	34.10	42.10	51.80					
5.0	27.40	34.10	42.20	51.80					
10.0	27.40	34.20	42.50	52.20	63.90				
15.0	27.20	34.30	42.70	52.60	64.30				
20.0	27.00	34.20	42.70	52.80	64.60	78.50			
25.0	26.70	34.10	42.70	52.80	64.70	78.70	95.20	102.50	
30.0	26.30	33.80	42.60	52.80	64.80	78.80	95.40	103.00	115.00
35.0	25.80	33.40	42.30	52.60	64.60	78.80	95.40	103.00	115.00
40.0		32.90	41.90	52.20	64.40	78.60	95.30	103.00	115.00
45.0			41.40	51.80	63.90	78.20	95.00	102.50	115.00
50.0			40.70	51.20	63.40	77.70	94.60	102.50	114.50
55.0				50.40	62.70	77.10	94.20	102.00	114.50
60.0					61.90	76.40	93.60	101.50	114.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	14.4
Length/Width, mm	246/250
Height, mm	481
Net Weight, kg	38.1
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
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 (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. 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	11.3
Locked Rotor Current, A	64
Winding Resistance, ohm	2.8
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