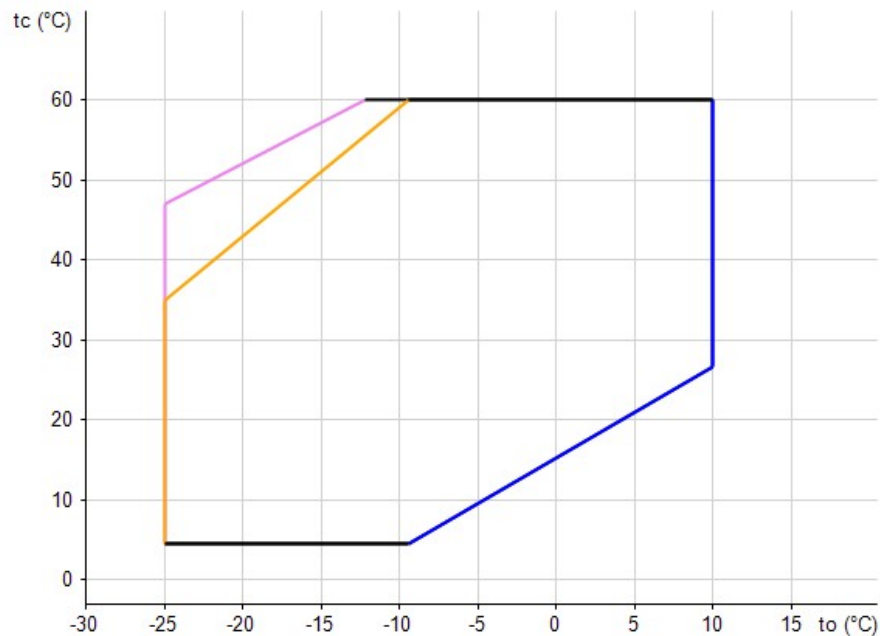




Minimum Evaporating Temp. With:

- 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	5.21	6.44	7.92	9.68					
5.0	5.19	6.41	7.89	9.65					
10.0	5.02	6.21	7.65	9.35	11.35				
15.0	4.83	5.99	7.38	9.03	10.95				
20.0	4.63	5.76	7.10	8.68	10.55	12.70			
25.0	4.42	5.51	6.79	8.30	10.05	12.15	14.50	15.55	
30.0	4.20	5.24	6.47	7.91	9.59	11.55	13.80	14.80	16.40
35.0	3.97	4.97	6.13	7.49	9.08	10.95	13.05	14.00	15.50
40.0		4.68	5.77	7.06	8.55	10.30	12.30	13.20	14.60
45.0			5.41	6.60	8.00	9.62	11.50	12.35	13.70
50.0			5.03	6.13	7.42	8.93	10.70	11.45	12.70
55.0				5.65	6.83	8.21	9.82	10.55	11.70
60.0					6.21	7.47	8.94	9.60	10.65

50 Hz

ZBD29KCE-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	1.02	1.03	1.07	1.16					
5.0	1.03	1.05	1.08	1.16					
10.0	1.20	1.20	1.22	1.27	1.36				
15.0	1.36	1.38	1.38	1.42	1.48				
20.0	1.53	1.56	1.58	1.60	1.64	1.72			
25.0	1.70	1.76	1.78	1.81	1.84	1.90	1.98	2.04	
30.0	1.85	1.94	2.01	2.04	2.08	2.12	2.18	2.22	2.29
35.0	1.98	2.13	2.23	2.29	2.34	2.38	2.43	2.46	2.51
40.0		2.31	2.45	2.55	2.62	2.67	2.72	2.74	2.78
45.0			2.67	2.81	2.91	2.98	3.04	3.06	3.10
50.0			2.87	3.07	3.21	3.31	3.39	3.42	3.45
55.0				3.32	3.52	3.66	3.76	3.80	3.85
60.0					3.81	4.01	4.15	4.20	4.26

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	3.02	3.03	3.07	3.17					
5.0	3.04	3.04	3.08	3.18					
10.0	3.20	3.20	3.22	3.28	3.39				
15.0	3.38	3.39	3.40	3.43	3.51				
20.0	3.57	3.60	3.62	3.64	3.69	3.78			
25.0	3.76	3.83	3.87	3.89	3.93	3.99	4.11	4.17	
30.0	3.94	4.06	4.14	4.18	4.22	4.27	4.36	4.40	4.49
35.0	4.10	4.29	4.42	4.50	4.56	4.61	4.68	4.72	4.78
40.0		4.52	4.71	4.84	4.93	5.00	5.07	5.10	5.16
45.0			5.00	5.20	5.33	5.43	5.51	5.55	5.60
50.0			5.28	5.56	5.76	5.90	6.01	6.05	6.11
55.0				5.92	6.19	6.40	6.55	6.60	6.68
60.0					6.63	6.91	7.13	7.20	7.29

50 Hz

ZBD29KCE-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	23.30	28.90	35.70	43.90					
5.0	23.30	28.90	35.70	44.00					
10.0	23.30	29.00	35.80	44.10	53.90				
15.0	23.20	28.90	35.80	44.10	53.90				
20.0	23.10	28.90	35.70	44.00	53.70	65.30			
25.0	22.90	28.70	35.60	43.80	53.50	65.00	78.50	84.60	
30.0	22.70	28.50	35.30	43.50	53.10	64.60	78.00	84.10	93.90
35.0	22.50	28.20	35.00	43.10	52.70	64.00	77.40	83.40	93.20
40.0		27.90	34.60	42.60	52.10	63.30	76.60	82.60	92.40
45.0			34.10	42.00	51.30	62.40	75.60	81.60	91.30
50.0			33.60	41.30	50.50	61.40	74.50	80.40	90.10
55.0				40.50	49.50	60.30	73.20	79.10	88.70
60.0					48.50	59.00	71.80	77.60	87.20

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	11.4
Length/Width, mm	243/243
Height, mm	463
Net Weight, kg	29.9
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.36
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	63
Sound Power (MT), dBA	74
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	4.6
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	5.10
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	10
Locked Rotor Current, A	48
Winding Resistance, ohm	3.88
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Discharge Temperature Protection	Discharge line thermostat
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