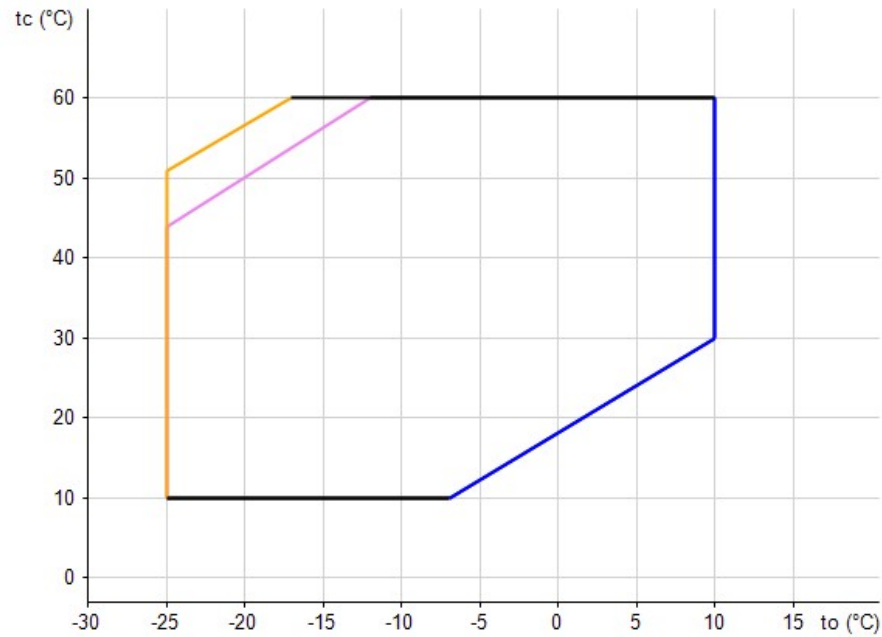




Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return — 10 K Suction Superheat
- 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
10.0	8.57	10.50	12.80	15.50					
15.0	8.20	10.05	12.25	14.85	17.85				
20.0	7.81	9.59	11.70	14.15	17.00	20.30			
25.0	7.40	9.11	11.10	13.45	16.15	19.25	22.80		
30.0	6.98	8.60	10.50	12.70	15.25	18.15	21.50	22.90	25.30
35.0	6.54	8.07	9.84	11.90	14.30	17.00	20.10	21.50	23.70
40.0	6.09	7.51	9.16	11.05	13.30	15.80	18.70	19.95	22.00
45.0		6.94	8.46	10.20	12.25	14.55	17.20	18.40	20.30
50.0		6.34	7.72	9.31	11.15	13.25	15.70	16.75	18.45
55.0			6.95	8.37	10.00	11.90	14.10	15.05	16.60
60.0				7.40	8.84	10.50	12.45	13.30	14.70

50 Hz

ZBD45KCE-TFD

R404A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	2.16	2.29	2.45	2.64					
15.0	2.35	2.48	2.63	2.81	3.02				
20.0	2.56	2.69	2.84	3.01	3.21	3.43			
25.0	2.79	2.93	3.08	3.25	3.43	3.64	3.88		
30.0	3.05	3.20	3.36	3.52	3.70	3.90	4.12	4.21	4.36
35.0	3.34	3.51	3.67	3.84	4.01	4.20	4.41	4.49	4.63
40.0	3.66	3.84	4.02	4.19	4.37	4.55	4.75	4.83	4.95
45.0		4.22	4.41	4.59	4.77	4.95	5.14	5.21	5.33
50.0		4.63	4.83	5.03	5.22	5.40	5.58	5.66	5.77
55.0			5.30	5.52	5.71	5.90	6.09	6.16	6.27
60.0				6.05	6.26	6.46	6.64	6.72	6.82

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
10.0	4.92	5.18	5.49	5.89					
15.0	5.31	5.52	5.76	6.07	6.49				
20.0	5.68	5.86	6.05	6.29	6.62	7.06			
25.0	6.03	6.20	6.36	6.55	6.81	7.17	7.65		
30.0	6.38	6.55	6.70	6.86	7.07	7.36	7.75	7.95	8.29
35.0	6.71	6.91	7.07	7.22	7.40	7.64	7.96	8.13	8.42
40.0	7.05	7.29	7.47	7.63	7.80	8.01	8.29	8.43	8.68
45.0		7.69	7.92	8.11	8.28	8.48	8.73	8.86	9.07
50.0		8.12	8.41	8.65	8.85	9.06	9.30	9.41	9.61
55.0			8.96	9.26	9.50	9.74	9.99	10.10	10.29
60.0				9.94	10.25	10.53	10.81	10.93	11.12

50 Hz

ZBD45KCE-TFD

R404A 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
10.0	48.60	59.90	73.40	89.50					
15.0	48.50	59.80	73.40	89.50	108.50				
20.0	48.30	59.70	73.30	89.40	108.50	130.50			
25.0	48.00	59.40	73.00	89.10	108.00	130.50	156.50		
30.0	47.70	59.10	72.60	88.60	107.50	129.50	155.50	167.50	186.50
35.0	47.30	58.70	72.10	88.00	106.50	129.00	154.50	166.50	185.50
40.0	46.80	58.10	71.40	87.20	105.50	127.50	153.50	165.00	184.00
45.0		57.40	70.60	86.10	104.50	126.00	152.00	163.50	182.50
50.0		56.60	69.60	84.90	103.00	124.50	150.00	162.00	181.00
55.0			68.50	83.60	101.50	123.00	148.50	160.00	179.50
60.0				82.30	99.90	121.00	147.00	158.50	178.50

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	3922
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