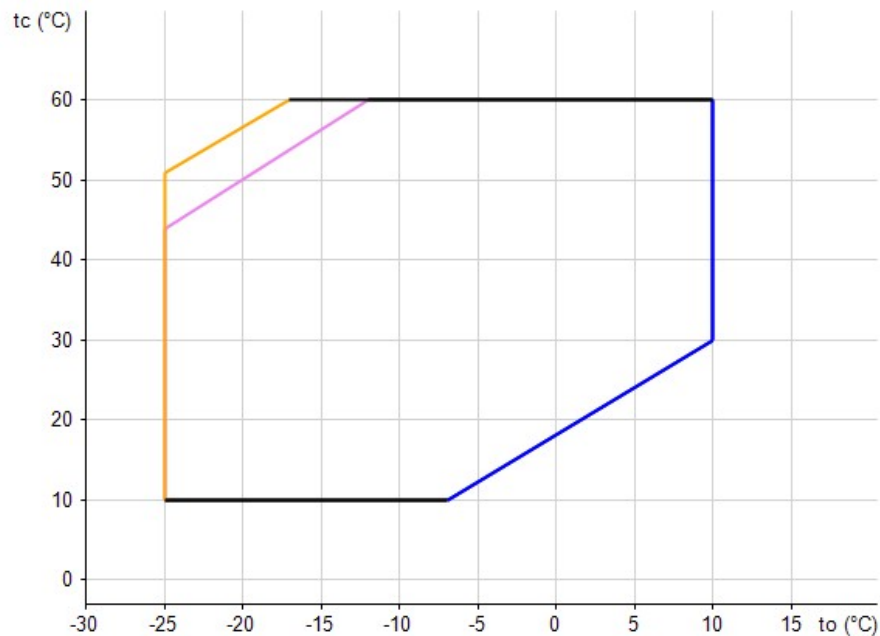




Minimum Evaporating Temp. With:

- 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	5.82	7.13	8.67	10.45					
15.0	5.55	6.81	8.29	10.00	12.00				
20.0	5.28	6.49	7.90	9.54	11.45	13.65			
25.0	5.00	6.15	7.49	9.05	10.85	12.95	15.30		
30.0	4.71	5.80	7.06	8.53	10.20	12.15	14.40	15.40	17.00
35.0	4.40	5.43	6.61	7.98	9.56	11.40	13.50	14.40	15.90
40.0	4.09	5.04	6.14	7.40	8.86	10.55	12.50	13.35	14.75
45.0		4.64	5.64	6.79	8.13	9.68	11.45	12.25	13.55
50.0		4.21	5.11	6.15	7.36	8.76	10.40	11.10	12.30
55.0			4.56	5.48	6.55	7.81	9.27	9.93	11.00
60.0				4.77	5.70	6.80	8.10	8.68	9.62

50 Hz

ZBD29KCE-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	1.40	1.39	1.36	1.35					
15.0	1.61	1.63	1.62	1.62	1.63				
20.0	1.78	1.83	1.85	1.86	1.88	1.91			
25.0	1.94	2.01	2.05	2.07	2.10	2.13	2.20		
30.0	2.10	2.19	2.25	2.29	2.32	2.35	2.42	2.45	2.52
35.0	2.27	2.39	2.47	2.52	2.55	2.59	2.64	2.67	2.73
40.0	2.48	2.63	2.72	2.78	2.82	2.86	2.91	2.93	2.98
45.0		2.92	3.03	3.10	3.15	3.18	3.22	3.24	3.28
50.0		3.28	3.41	3.50	3.55	3.58	3.61	3.63	3.66
55.0			3.89	3.98	4.03	4.07	4.09	4.10	4.12
60.0				4.57	4.63	4.66	4.67	4.68	4.69

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	3.23	3.19	3.15	3.14					
15.0	3.47	3.47	3.45	3.45	3.48				
20.0	3.67	3.70	3.71	3.71	3.74	3.82			
25.0	3.85	3.91	3.94	3.96	3.99	4.06	4.18		
30.0	4.02	4.13	4.19	4.22	4.25	4.31	4.41	4.48	4.59
35.0	4.23	4.38	4.46	4.51	4.55	4.60	4.68	4.73	4.83
40.0	4.48	4.67	4.79	4.86	4.90	4.94	5.01	5.05	5.13
45.0		5.05	5.19	5.28	5.33	5.38	5.43	5.46	5.52
50.0		5.52	5.70	5.81	5.87	5.91	5.95	5.97	6.02
55.0			6.33	6.47	6.54	6.58	6.61	6.62	6.65
60.0				7.27	7.36	7.41	7.42	7.43	7.44

50 Hz

ZBD29KCE-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	33.00	40.60	49.70	60.50					
15.0	32.90	40.50	49.60	60.40	73.10				
20.0	32.70	40.40	49.50	60.20	72.90	87.90			
25.0	32.40	40.20	49.20	60.00	72.60	87.50	105.00		
30.0	32.20	39.90	48.90	59.50	72.10	86.90	104.50	112.50	125.50
35.0	31.80	39.50	48.50	59.00	71.40	86.20	103.50	111.50	124.50
40.0	31.40	39.00	47.80	58.20	70.60	85.20	102.50	110.50	123.50
45.0		38.40	47.10	57.30	69.40	83.90	101.00	109.00	122.00
50.0		37.60	46.10	56.10	68.00	82.30	99.60	107.50	120.50
55.0			44.90	54.70	66.40	80.50	97.60	105.50	118.50
60.0				53.00	64.50	78.40	95.60	103.50	117.00

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	3922
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