



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
10.0	22.50	27.70	33.70	40.80					
15.0	21.50	26.50	32.30	39.00	46.80				
20.0	20.30	25.20	30.70	37.20	44.60	53.10			
25.0	19.05	23.70	29.10	35.20	42.30	50.30	59.50		
30.0	17.60	22.20	27.30	33.20	39.80	47.40	56.00	59.80	65.90
35.0	15.95	20.40	25.40	31.00	37.30	44.40	52.50	56.00	61.70
40.0		18.55	23.30	28.60	34.50	41.20	48.80	52.10	57.40
45.0			21.00	26.00	31.60	37.90	45.00	48.10	53.00
50.0				23.30	28.50	34.40	41.00	43.80	48.40
55.0				20.20	25.20	30.70	36.70	39.40	43.60
60.0					21.60	26.70	32.30	34.70	38.60

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	5.79	5.94	6.10	6.25					
15.0	6.41	6.56	6.72	6.88	7.05				
20.0	7.11	7.26	7.41	7.56	7.73	7.90			
25.0	7.92	8.05	8.18	8.33	8.48	8.65	8.82		
30.0	8.86	8.96	9.08	9.20	9.33	9.48	9.64	9.70	9.81
35.0	9.96	10.00	10.10	10.20	10.30	10.40	10.55	10.60	10.70
40.0		11.25	11.30	11.35	11.40	11.50	11.60	11.65	11.70
45.0			12.65	12.65	12.70	12.75	12.80	12.85	12.90
50.0				14.20	14.15	14.15	14.15	14.15	14.20
55.0				15.95	15.85	15.75	15.75	15.70	15.70
60.0					17.75	17.60	17.50	17.45	17.40

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	16.99	17.16	17.31	17.44					
15.0	17.46	17.66	17.83	17.98	18.13				
20.0	18.06	18.27	18.45	18.61	18.77	18.94			
25.0	18.82	19.03	19.22	19.38	19.54	19.71	19.90		
30.0	19.79	19.99	20.17	20.32	20.48	20.64	20.82	20.90	21.03
35.0	21.01	21.19	21.34	21.48	21.62	21.76	21.92	21.99	22.11
40.0		22.67	22.79	22.90	23.00	23.11	23.24	23.30	23.40
45.0			24.54	24.61	24.67	24.74	24.83	24.87	24.95
50.0				26.66	26.66	26.68	26.72	26.75	26.79
55.0				29.08	29.03	28.98	28.96	28.96	28.97
60.0					31.80	31.68	31.59	31.56	31.52

50 Hz

ZBD114K5E-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	128.00	158.00	193.50	236.00					
15.0	127.00	157.50	193.00	235.00	285.00				
20.0	125.50	156.50	192.50	235.00	284.00	342.00			
25.0	123.50	155.00	191.50	233.00	283.00	340.00	408.00		
30.0	120.00	152.50	189.50	232.00	281.00	339.00	406.00	437.00	486.00
35.0	115.50	148.50	186.00	229.00	278.00	336.00	404.00	434.00	484.00
40.0		143.00	181.50	225.00	275.00	333.00	401.00	431.00	481.00
45.0			175.50	220.00	270.00	329.00	397.00	428.00	478.00
50.0				212.00	264.00	323.00	392.00	423.00	474.00
55.0				202.00	255.00	316.00	387.00	419.00	471.00
60.0					244.00	307.00	381.00	414.00	469.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	43.3
Length/Width, mm	393/312
Height, mm	552
Net Weight, kg	68.9
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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 (0)
Sound Pressure @ 1m (MT), dBA	71
Sound Power (MT), dBA	82
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	14.0
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-32
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	33.3
Locked Rotor Current, A	174
Winding Resistance, ohm	0.83/0.83/0.83 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Solenoid valve	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater	90 W External
Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Valve Coil	24V AC
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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04