



Minimum Evaporating Temp. With:

- 20 K Suction Superheat
- 0 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Temperature -5.0°C

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW					
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0
-20.0	13.75	17.15	21.00	25.50		
-15.0	13.15	16.35	20.10	24.40	29.20	
-10.0	12.55	15.55	19.10	23.20	27.90	33.10
-5.0		14.80	18.15	22.10	26.60	31.60
0.0			17.20	20.90	25.20	30.10
5.0				19.80	23.90	28.60

50 Hz

ZOD104KCE-TFDN

R744

Cond °C	Power, kW					
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0
-20.0	3.85	3.89	3.99	4.14		
-15.0	4.36	4.39	4.46	4.59	4.76	
-10.0	4.97	4.97	5.02	5.13	5.28	5.49
-5.0		5.66	5.68	5.76	5.90	6.08
0.0			6.44	6.50	6.61	6.76
5.0				7.32	7.41	7.55

Cond °C	Current at 400 V, A					
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0
-20.0	6.96	7.03	7.17	7.36		
-15.0	7.64	7.68	7.78	7.94	8.16	
-10.0	8.41	8.41	8.48	8.61	8.81	9.07
-5.0		9.26	9.30	9.41	9.58	9.81
0.0			10.27	10.35	10.50	10.71
5.0				11.47	11.60	11.80

Cond °C	Suction Mass Flow, g/s					
	-50.0	-45.0	-40.0	-35.0	-30.0	-25.0
-20.0	47.90	59.20	72.30	87.30		
-15.0	47.60	58.70	71.70	86.60	103.50	
-10.0	47.30	58.20	71.10	85.90	103.00	121.50
-5.0		57.80	70.50	85.30	102.00	121.50
0.0			70.00	84.80	102.00	121.00
5.0				84.40	101.50	121.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	11.7
Length/Width, mm	241/246
Height, mm	484
Net Weight, kg	41
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.89
Oil type (original charge)	POE RL 68 HB
Oil type (approved oils)	POE RL 68 HB
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (LT), dBA	67
Sound Power (LT), dBA	78
Sound Conditions (LT, Temperatures:	-35 / -5 / 5 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
High Side PS gauge, bar	45
Low Side PS gauge, bar	30
Refrigerant's GWP	1
Refrigerant's classification	A1

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

Maximum Operating Current, A	15
Locked Rotor Current, A	75
Winding Resistance, ohm	2.27
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Grommets	Standard
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### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Oil Control System	ALCO Trax-Oil OM4
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Solenoid Valve Kit	220 V Ac 12" lead Length
Digital Control Kit	EC2-552
Display Case	ECD-000
Mounting Grommets	Hard Mounts for Paralleling
Digital Tubing Kit	220 V 0.3m Rotalock
Solenoid valve	Standard
Digital Tubing Kit	24 V 0.3m Rotalock
Digital Driver	EC3-D13
Valve Coil	24V AC
Solenoid Valve Kit	24 V Ac 12" lead Length
Digital Control Kit	EC3-652

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09