



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/037</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	ZLF 100 DC (SureChill ®)
<b>Manufactured in:</b>	South Africa
<b>Company:</b>	Zero Appliances (Pty) Ltd
<b>Address:</b>	P.O. Box 426 Edenvale 1610 Gauteng Province South Africa
<b>Telephone:</b>	(010) 207 1600
<b>Email:</b>	<a href="mailto:rudi@zeroappliances.co.za">rudi@zeroappliances.co.za</a> ; <a href="mailto:brigitte@zeroappliances.co.za">brigitte@zeroappliances.co.za</a>
<b>Web address:</b>	<a href="http://www.zeroappliances.co.za">www.zeroappliances.co.za</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	+5°C
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	180 x 85 x 73 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR</b>		<b>AND / OR FREEZER</b>	
		<b>Freeze protection: Grade A</b>	
<b>Vaccine storage capacity: (Liters)</b>	99L (one shelf); 93L (all shelves)	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	124L	<b>Waterpack freezing capacity:</b>	N/A
		<b>Waterpack storage capacity:</b>	N/A
<b>Autonomy as per WHO/PQS protocols</b>	170.1 hours	<b>At a solar radiation reference period of:</b>	3.5 kWh/m <sup>2</sup> /day

### Warning !

For solar direct drive units, the correct sizing of the solar panel array for a specific site is complex and critical. It must be agreed with both the appliance manufacturer and with the Qualified Supplier of the solar energy system at the time of ordering.

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Price do not include solar system (1,350 USD); Energy source: 370 Wp array at 3.5 kWh/m2/day at 43°C

Entire system is plug and play with MC4 (MIC) connectors, on board isolator and surge protector. The array frame is roof adjustable.

Unit uses SureChill ® technology

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**Comments:**

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**Accessories:**

3 shelves: Liquid PCM to mix with water.  
Optional: Extra shelves; drawers; Plywood packaging; 1 padlock

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**Spare parts (ref, price):**

Included in the UNICEF Supply Division spare parts kit:  
1 No. Compressor - Part No. IMPC151  
1 No. Compressor controller - Part No. IMP152  
1 No. Fan Set - Part No. IMP144  
1 No. Condenser - Part No. IMP145  
1 No. Electronic card - Part No. IMP012  
1 No. 24 V Surge Protector - Part No. ELSP15  
1 No. Capacitor - Part No. ZLFDC

Other parts are available as spares on request.

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**Shipping volume:**

1.132m3

**Shipping weight:**

115kg

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**Price year**

2016

**Incoterms**

EXW

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**Price**

up to 49units: 3,933.00 USD    50 to 99 units: 3,834.00 USD    100 or more: 3,736.00 USD

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**Quality standard:**

- ISO 9001:2008 -

**Specification ref.**

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**Verification report:**

100963912MKS-001a Issue 2

**Verification laboratory:**

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**Current PQS status:**

*pre-qualified: 25 Apr 2013*

**Validity until:** *May, 2022*

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Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased.