



## E003:

## Refrigerators and freezers

<b>PQS code:</b>	<b>E003/098</b>
<b>Type of appliance:</b>	Solar direct drive refrigerator
<b>Manufacturer's reference:</b>	CFD-50 SDD
<b>Manufactured in:</b>	China; People's Republic of
<b>Company:</b>	Qingdao Aucma Global Medical Co.,Ltd.
<b>Address:</b>	315 Qianwangang Road, Economic & Technological Development Zone, Qingdao, China
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<b>Web address:</b>	<a href="http://aucmaglobal.com.cn">http://aucmaglobal.com.cn</a>

## Specifications

<b>Climate zone:</b>	Hot	<b>Min rated ambient temp:</b>	
<b>Refrigerant:</b>	R600a	<b>Energy source:</b>	Solar direct drive;#2;#Electric Mains 115/60Hz;#8;#Electric Mains 220-240V 50/60Hz or Electric Mains 115/60Hz optional
<b>Appliance tested at:</b>	+43°C	<b>Ext dimensions (HxLxD)</b>	158.8 x 54.5 x 65.5 cm
<b>Performance at:</b>	<b>+43°C</b>	<b>Fuel and cycle type:</b>	Electric - compression
<b>SOLAR DIRECT DRIVE REFRIGERATOR AND / OR FREEZER</b>			<b>Freeze protection: Grade A</b>
<b>Vaccine storage capacity: (Liters)</b>	50 L	<b>Gross volume (Liters):</b>	N/A
<b>Gross volume (Liters):</b>	68 L	<b>Waterpack freezing capacity:</b>	
		<b>Waterpack storage capacity:</b>	
<b>Autonomy as per WHO/PQS protocols</b>	120 hours	<b>At a solar radiation reference period of:</b>	3.5 kWh/m2/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.

"The CFD-50 SDD MetaFridge provides safe, solar-powered vaccine storage for health facilities that have minimal or no mains power, and extreme ambient temperatures. Extensively tested ColdSafe™ thermosyphon technology keeps vaccines cold with no risk of freezing through 5+ day periods with inadequate sunlight. MetaFridge patented technology is licensed for manufacture to Aucma.

- Included 3x100W PV modules and universal (roof, ground, pole) PV mounting rack with 20m wiring and 1.5m ground rod.
- Included PQS approved energy harvesting outputs with 12V (2A), 2x5V USB (1A), and 3-18V (8A) defined load output options
- Integrated 30-day electronic refrigerator temperature logger stores and displays temperature, alarm history and remaining autonomy/holdover time. (PQS prequalified in E006/TR06.3).
- Optional remote monitoring module relays key performance metrics to remote users. (Hardware and data services package are PQS prequalified in E006/TR03.2.) Contact manufacturer for additional information.
- Includes integrated AC input with voltage range of 90-290V and surge, under, and over voltage protection. Solar power is prioritized if both Solar and AC are connected.
- Unit requires the addition of 32 liters of clean water during installation.

More information on ColdSafe and other Meta-Fridge technologies is available at [www.metafridge.com](http://www.metafridge.com)"

**Comments:**

**Accessories:**

Universal solar panel mounting kit for ground, pole or roof with required tools and instructions for assembly (pole not included); grounding kit; integrated PQS prequalified 30 DTR; integrated energy harvest control (EHC) module; 2 vaccine storage trays; 3 wire shelves; 2 sets of locks & keys; 1 funnel; documentation;

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

Included in the UNICEF Supply Division spare parts kit:  
 1 No. Compressor  
 1 No. DC fan  
 1 No. Electronic control unit

Other parts are available as spares on request.

<b>Shipping volume:</b>	0.78 m3	<b>Shipping weight:</b>	95 kg
<b>Price year</b>	2018	<b>Incoterms</b>	EXW
<b>Price</b>	1 – 99 units: 3200 USD	100 or more units: 3100 USD	
<b>Quality standard:</b>	- ISO 9001:2008 -	<b>Specification ref.</b>	
<b>Verification report:</b>	WB-18-430	<b>Verification laboratory:</b>	CHEARI
<b>Current PQS status:</b>	<i>pre-qualified: 19 Oct 2018</i>	<b>Validity until:</b>	<i>May, 2024</i>

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