



## E003:

## Refrigerators and freezers

|                                  |  |
|----------------------------------|--|
| <b>PQS code:</b>                 | <b>E003/108</b>  |
| <b>Type of appliance:</b>        | Solar direct drive refrigerator  |
| <b>Manufacturer's reference:</b> | VLS 154A SDD Greenline   |
| <b>Manufactured in:</b>          | Denmark  |
| <b>Company:</b>                  | Vestfrost Solutions  |
| <b>Address:</b>                  | A/S Vestfrost<br>Falkevej 12<br>DK-6705 Esbjerg Ø<br>Denmark   |
| <b>Telephone:</b>                | +45 7914 2555; +45 7914 2248   |
| <b>Email:</b>                    | <a href="mailto:clc@vestfrostsolutions.com">clc@vestfrostsolutions.com</a> ;<br><a href="mailto:bjn@vestfrostsolutions.com">bjn@vestfrostsolutions.com</a> |
| <b>Web address:</b>              | <a href="http://vestfrostsolutions.com/">http://vestfrostsolutions.com/</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>                    | 86.0 x 127.0 x 70.0 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>               | 170          | <b>Gross volume (Liters):</b>                    | N/A                               |
| <b>Gross volume (Liters):</b>                           | 248          | <b>Waterpack freezing capacity:</b>              | N/A                               |
|   |              | <b>Waterpack storage capacity:</b>               | N/A                               |
| <b>Autonomy as per WHO/PQS protocols</b>                | 73.4 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.

|   |  |                          |                                |
|---|--|--------------------------|--------------------------------|
|   | Prices include Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug & play installation.<br>Unit equipped with unique QR code that can be used with Vestfrost Solutions Unit tracker APP, containing various installation/service features.   |                          |                                |
|   | As an option the appliance can be supplied with Vestfrost in-built RTMD; with following features:<br>1: 5" touch display 2: 3X internal temp. sensors 3: ambient temp. 4: compressor sensor 5: humidity sensor 6: lid opening alarm 7: GPS coordinates via Google maps 8: 1X USB 5V solar harvesting port. All data collected/logged is automatic via GPRS uploaded to Vestfrost RTMD performance data-portal, and/or can be accessed onsite from the touch screen menu. |                          |                                |
| Comments:   |  |                          |                                |
| Accessories:  | 4 x Vaccine storage top basket; Bottom grating; 30 day electronic temperature logger; Self-regulating temperature control; Electronic temperature reading; 2 x Keys; Instruction manual in 6 UN languages; Technical manual in 6 UN languages; Plywood packing/crate   |                          |                                |
| Spare parts (ref, price):   | Included in the UNICEF Supply Division spare parts kit:<br>1 No. Compressor (BD35K 101Z0211) -1 10-45 V - Part No. 8-036510223<br>1 No. Electronic control unit - Part No. 6520845 (Incl. in the compressor)<br>1 No. Electronic Thermostat/controller (Dixell) - Part No. 702090013<br>1 No. Fan Set - Part No. 7090099<br>1 No. Thermometer - Part No. 7020287-03<br><br>Other parts are available as spares on request.   |                          |                                |
| Shipping volume:  | 0.83m3   | Shipping weight:         | 108kg                          |
| Price year  | 2016   | Incoterms                | FCA                            |
| Price   |  |                          |                                |
| Quality standard:   | - ISO 9001:2008 - ISO 14001<br>- DS/OHSAS 18001:2008 -   | Specification ref.       |                                |
| Verification report:  | 300-KLAB-15-115  | Verification laboratory: | Danish Technological Institute |
| Current PQS status:   | pre-qualified: 02 Oct 2019   |                          | Validity until: May, 2023      |
| Note: If Current PQS status is 'Suspended' or 'Withdrawn', this product is NOT to be purchased. |  |                          |                                |