



## E003: Refrigerators and freezers



|                                 |   |
|---------------------------------|---|
| <b>Product name:</b>            | VLS 054Ae SDD   |
| <b>IMD-PQS Code:</b>            | E003-106e   |
| <b>Status:</b>                  | Prequalified  |
| <b>Date of acceptance:</b>      | 10 Feb 2019   |
| <b>Appliance type:</b>          | E003  |
| <b>Product description:</b>     | Solar direct drive refrigerator   |
| <b>Manufacturer:</b>            | Vestfrost Solutions   |
| <b>Manufacturers Reference:</b> | VLS 054Ae SDD   |
| <b>Country of Manufacture:</b>  | Denmark   |
| <b>Address:</b>                 | A/S Vestfrost Falkevej 12<br>Esbjerg Ø<br>Syddanmark<br>Denmark             |
| <b>Telephone:</b>               | +45 7914 2527   |
| <b>Email:</b>                   | <a href="mailto:clc@vestfrostsolutions.com">clc@vestfrostsolutions.com</a>  |
| <b>Website address:</b>         | <a href="http://vestfrostsolutions.com/">http://vestfrostsolutions.com/</a> |
| <b>Valid until:</b>             | 31 May 2027   |

### Specifications

#### PRODUCT SPECIFICATIONS - MAIN

|  |                        |   |                    |
|--|------------------------|---|--------------------|
| <b>Climate zone</b>                                  | Hot                    | <b>Minimum rated ambient temperature (°C)</b> | 5.00               |
| <b>Freeze protection</b>                             | Grade A                | <b>Hold over time (hours:mn)</b>              | 89:32              |
| <b>External dimensions length (mm)</b>               | 600.00                 | <b>External dimensions width (mm)</b>         | 720.00             |
| <b>External dimensions height (mm)</b>               | 850.00                 | <b>Performance at" (°C)</b>                   | 43.00              |
| <b>Fuel and refrigeration cycle</b>                  | Electric - compression | <b>Energy source</b>                          | Solar direct drive |
| <b>Lining</b>  | Ice-lined              | <b>Energy Consumption Cool Down (kWh/24h)</b> | 0.6900             |
| <b>Energy Consumption Continuous Power (kWh/24h)</b> | 0.3500                 |   |                    |

#### PRODUCT SPECIFICATIONS - ADDITIONAL REFRIGERATOR

|   |        |   |         |
|---|--------|---|---------|
| <b>Refrigerator vaccine storage capacity(L)</b> | 55.500 | <b>Refrigerator's gross volume (Litres)</b> | 108.000 |
| <b>Autonomy (hrs:mn)</b>                        | 89:32  | <b>Refrigerant type</b>                     | R600a   |
| <b>Solar radiation ref period (kWh/m2/day)</b>  | 3.50   |   |         |

|   |   |
|---|---|
| <b>Comments</b>                                   | APPROVED EMS LEVEL 2 Prices include Vestfrost Solutions SDD PV energy kit comprising of PV panels, roof adjustable bracket system, plug & play installation. 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: 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. Range of holdover time: 51 - 100 hours Range vaccine storage capacity: 25L - 60L |
| <b>List of accessories</b>                        | 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  |
| <b>List of spare parts, Reference &amp; Price</b> | Included in the UNICEF Supply Division spare parts kit: 1 No. Compressor (BD 35K) Complete R600a Incl. ECU - Part No. 8-036510223 1 No. Thermostat - Part No. 702090044 1 No. Fan Set (KD1208PTB3) 12 V DC Part No. 7090486 1 No. Thermometer, solar, Part No.7020382-03  |

#### PRICE AND SHIPPING

|                             |                        |                             |                     |
|-----------------------------|------------------------|-----------------------------|---------------------|
| <b>Shipping volume (m3)</b> | 0.65                   | <b>Shipping weight (kg)</b> | 85.00               |
| <b>Incoterms</b>            | FCA                    | <b>Price 1</b>              | 1-99 units: 3,107 € |
| <b>Price 2</b>              | 100-199 units: 2.882 € | <b>Year of base price</b>   | 2016                |

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#### QUALITY STANDARD

|                                |  |                                 |   |
|--------------------------------|--|---------------------------------|---|
| <b>Quality Standard</b>        | Other  | <b>Quality standard (Other)</b> | ISO 9001:2008;ISO 14001;DS/OHSAS 18001:2008 |
| <b>Specification Reference</b> | Applicable PQS specification:<br>E003/RF05.5 Applicable PQS<br>VP(s): E003/RF05-VP.4 |                                 |   |

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#### VERIFICATION

|                                      |                          |
|--------------------------------------|--------------------------|
| <b>Verification Report Reference</b> | 100918190MKS-001 issue 2 |
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#### PRODUCT SITES

|                          |   |
|--------------------------|---|
| <b>Organization name</b> | Vestfrost Solutions   |
| <b>Address</b>           | A/S Vestfrost Falkevej 12<br>Esbjerg Ø<br>Syddanmark<br>Denmark |

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|                            |                     |                     |                    |
|----------------------------|---------------------|---------------------|--------------------|
| <b>Current PQS status:</b> | <i>Prequalified</i> | <b>Valid until:</b> | <i>31 May 2027</i> |
|----------------------------|---------------------|---------------------|--------------------|

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