



| Product Type   | ULT (230V)          |
|--|---------------------|
| Color code handle / Color code housing   | RAL 9003 / RAL 9003 |
|  |                     |
| MEASURES   |                     |
| Interior volume [L]  | 477                 |
| Net weight of the unit (empty) [kg]  | 247                 |
| Permitted load [kg]  | 200                 |
| Permitted load of individual compatment (kg)                                   | 50                  |
| Wall clearance back [mm]   | 100                 |
| Wall clearance sidewise [mm]   | 250                 |
| Mobility   | 4 wheels, 2 w. lock |
|  |                     |
| INTERNAL DIMENSIONS  |                     |
| Interior width [mm]  | 606                 |
| Interior height [mm]   | 1300                |
| Interior depth [mm]  | 608                 |
|  |                     |
| DOORS  |                     |
| Inner doors  | 2                   |
| Unit doors   |                     |
|  |                     |
| HOUSING DIMENSIONS NOT INCL. FITTINGS AND CONN                                 | FCTIONS             |
| Width net [mm]   | 826                 |
| Height net [mm]  | 1966                |
| Depth net [mm]   | 938                 |
|  |                     |
| PERFORMANCE DATA TEMPERATURE   |                     |
|  |                     |
| Temperature range [°C]<br>Temperature variation at -80 °C [±K]                 | -9040               |
| Temperature fluctuation at -80 °C [±K]   | 2.5                 |
| Cooling down time (min) from 22 °C to -80 °C                                   | 1,5                 |
| Warm-up time during power failure from -80 °C /-122 °F to -60 °C /-76 °F [min] | 360                 |
|  | 230                 |
| ELECTRICAL DATA  |                     |
|  |                     |
| Rated Voltage [V]  | 230                 |
| Power frequency [Hz]   | 50                  |
| Nominal power [kW]<br>Unit fuse [A]  | 1,6                 |
| Unit fuse [A]<br>Power plug standard   |                     |
|  | 2m C13 CEE 7/7      |
| Phase (Nominal voltage)  | ]~                  |

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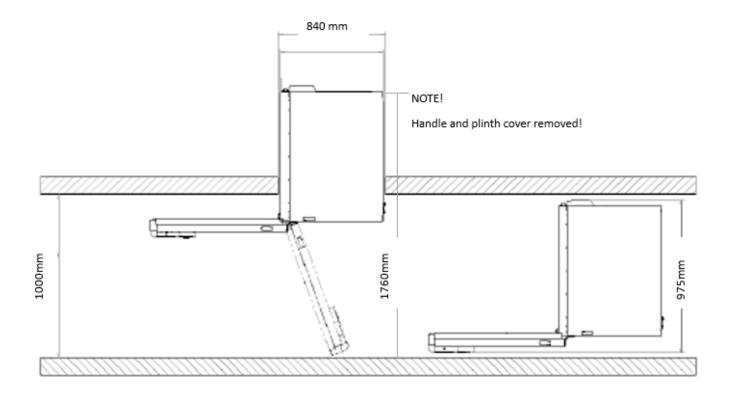
| iound-pressure level [dB(A)]         .OAD-VARIANTS         ireezer racks per compartment         ryoboxes, 50 mm         FEATURES         Warm system, batterybacked         istandi         istano  |  |  |
|--|--|--|
| Intergy consumption at set-point -80 °C (kWh/24h)<br>Average heat dissipation at set-point (-80°C, Amb. 20°C)(W)<br>Sound-pressure level [dB(A)]<br>COAD-VARIANTS<br>Treezer racks per compartment<br>Tryoboxes, 50 mm<br>FEATURES<br>Varm system, batterybacked<br>Set Son partmen door<br>SET Son power colle<br>Son powe | VIRONMENT SPECIFIC DATA  |  |
| tworage heat dissipation at set-point (-80°C, Amb. 20°C)(W)       ::::::::::::::::::::::::::::::::::::   |  | 7,9  |
| OAD-VARIANTS         irrezzer racks per compartment         Cryoboxes, 50 mm         FEATURES         Narm system, batterybacked         istandi         istandi         istandi         istanteryback-up system (co2)         ishipping pallet (extra specified pallet)         option(no additional article numboonly on requestion included/max.no. of shelves         FIXTURES         ishelves included/max.no. of shelves         C 13 Bts 1863 British plug = 5023-02         C 13 Et 7/7 European plug = 5023-02         Standif supports         Standif supports         Standif supports     <   |  | 33(  |
| Interseer racks per compartment  | Ind-pressure level [dB(A)]   | 4  |
| Interseer racks per compartment  |  |  |
| Cryoboxes, 50 mm       ::::::::::::::::::::::::::::::::::::  | AD-VARIANTS  |  |
| FEATURES       standa         Nam system, batterybacked       standa         ioam filled conpartmen door       standa         stattery back-up system (CO2)       standa         sthipping pallet (extra specified pallet)       option(no additional article number only on requered)         FIXTURES       stattery back-up system (CO2)         sihelves included/max. no. of shelves       c 13 BS 1363 British plug - 5023-02         C 13 BS 1363 British plug - 5023-02       c 13 CEE 7/7 European plug - 5023-02         ACCESSORIES       c 13 type 13 Swiss plug - 5023-02         beicing kit consisting of de-icing tray, wiper and scraper       8012-16         brid shelf - For temperature range - 40 °C to -60 °C, 3 provided in set, necluding shelf supports       8012-16         sihelf, Incl. shelf supports, stainless steel       8012-12         WLAN kit, wireless connection between ULT units and APT-COM4, IMS or customer solution.       8012-12  | ezer racks per compartment   |  |
| Name system, batterybacked       standation         ioam filled conpartmen door       standation         stattery back- up system (CO2)       standation         shipping pallet (extra specified pallet)       option(no additional article number only on requered on the standation   | roboxes, 50 mm   | 35:  |
| Name system, batterybacked       standation         ioam filled conpartmen door       standation         stattery back- up system (CO2)       standation         shipping pallet (extra specified pallet)       option(no additional article number only on requered on the standation   |  |  |
| initial conpartmen door       standation         stattery back-up system (CO2)       standation         stattery back-up system (CO2)       option(no additional article number only on requered on the requered on the requered on the requered only on requered on the reque   | ATURES   |  |
| stattery back-up system (CO2)       standation         shipping pallet (extra specified pallet)       option(no additional article number only on requered)         FIXTURES       shelves         shelves included/max. no. of shelves       c 13 BS 1363 British plug - 5023-02         ACCESSORIES       C 13 DS 1363 British plug - 5023-02         Sm power cable       C 13 CEE 7/7 European plug - 5023-02         C 13 type 13 Swiss plug - 5023-02       c 13 type 13 Swiss plug - 5023-02         beleing kit consisting of de-icing tray, wiper and scraper       8012-18         Srid shelf - For temperature range -40 °C to -60 °C, 3 provided in set, neluding shelf supports       8012-18         shelf. Incl. shelf supports, stainless steel       8012-18         VIAN kit, wireless connection between ULT units and APT-COM4, IMS or customer solution.       8012-12  | rm system, batterybacked   | standard   |
| shipping pallet (extra specified pallet)       option(no additional article number only on requered on the respective on the respecting the respective on the respective on the respective  | ım filled conpartmen door  | standard   |
| The function of the lives included/max. no. of shelves  The lives included/max. no. of shelves  The power cable  C 13 BS 1363 British plug - 5023-02  C 13 CEE 7/7 European plug - 5023-02  C 13 type 13 Swiss plug - 5023-02  Delicing kit consisting of de-icing tray, wiper and scraper  Delicing kit consisting of de-icing tray, wiper and scraper  Strid shelf - For temperature range -40 °C to -60 °C, 3 provided in set,  necluding shelf supports  Standards & APPROVALS  Standards & APPROVALS   | tery back-up system (CO2)  | standard   |
| FIXTURES         Shelves included/max. no. of shelves         ACCESSORIES         Sm power cable         C 13 BS 1363 British plug - 5023-02         C 13 CEE 7/7 European plug - 5023-02         C 13 CEE 7/7 European plug - 5023-02         C 13 CEE 7/7 European plug - 5023-02         C 13 type 13 Swiss plug - 5023-02         Sthelf - For temperature range - 40 °C to - 60 °C, 3 provided in set, ncluding shelf supports         Shelf, Incl. shelf supports, stainless steel         WLAN kit, wireless connection between ULT units and APT-COM4, INS or customer solution.         STANDARDS & APPROVALS   | pping pallet (extra specified pallet)  | option(no additional article numbers                                   |
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| Shelves included/max. no. of shelves  ACCESSORIES  C 13 BS 1363 British plug - 5023-02 C 13 CEE 7/7 European plug - 5023-02 C 13 type 13 Swiss   |  |  |
| ACCESSORIES<br>5m power cable C 13 BS 1363 British plug - 5023-02 C 13 CEE 7/7 European plug - 5023-02 C 13 type 13 Swiss plug - 5023-02 C 14 type 14 C   |  |  |
| Sm power cable       C 13 BS 1363 British plug - 5023-02         C 13 CEE 7/7 European plug - 5023-02         C 13 CEE 7/7 European plug - 5023-02         C 13 type 13 Swiss plug - 5023-02         Delcing kit consisting of de-icing tray, wiper and scraper         Srid shelf - For temperature range -40 °C to -60 °C, 3 provided in set, ncluding shelf supports         Shelf, Incl. shelf supports, stainless steel         VLAN kit, wireless connection between ULT units and APT-COM4, IMS or customer solution.   | lves included/max. no. of shelves  | 3/1:   |
| Sm power cable       C 13 BS 1363 British plug - 5023-02         C 13 CEE 7/7 European plug - 5023-02         C 13 CEE 7/7 European plug - 5023-02         C 13 type 13 Swiss plug - 5023-02         Delcing kit consisting of de-icing tray, wiper and scraper         Srid shelf - For temperature range -40 °C to -60 °C, 3 provided in set, ncluding shelf supports         Shelf, Incl. shelf supports, stainless steel         VLAN kit, wireless connection between ULT units and APT-COM4, IMS or customer solution.   |  |  |
| Sim power cable       C 13 CEE 7/7 European plug - 5023-02         C 13 CEE 7/7 European plug - 5023-02       C 13 type 13 Swiss plug - 5023-02         Delecing kit consisting of de-icing tray, wiper and scraper       8012-18         Srid shelf - For temperature range - 40 °C to - 60 °C, 3 provided in set, ncluding shelf supports       8012-18         Schelf, Incl. shelf supports, stainless steel       8012-18         WLAN kit, wireless connection between ULT units and APT-COM4, IMS or customer solution.       8012-22  | CCESSORIES   |  |
| C is CEE // Europeditipitity = 5023-02         C is type is Swiss plug = 5023-02         Strid shelf - For temperature range -40 °C to -60 °C, 3 provided in set, ncluding shelf supports         Schelf, Incl. shelf supports, stainless steel         NLAN kit, wireless connection between ULT units and APT-COM4, IMS or customer solution.  | <b>-</b>   | C 13 BS 1363 British plug – 5023-028                                   |
| Delicing kit consisting of de-icing tray, wiper and scraper       8012-19         Brid shelf - For temperature range -40 °C to -60 °C, 3 provided in set, ncluding shelf supports       8012-19         Schelf, Incl. shelf supports, stainless steel       8012-19         VLAN kit, wireless connection between ULT units and APT-COM4, IMS or customer solution.       8012-22  | 5m power cable   | C 13 CEE 7/7 European plug – 5023-028                                  |
| Srid shelf - For temperature range - 40 °C to - 60 °C, 3 provided in set,       8012-13         Including shelf supports       8012-13         Shelf, Incl. shelf supports, stainless steel       8012-13         WLAN kit, wireless connection between ULT units and APT-COM4,       8012-23         IMS or customer solution.       8012-23  |  | C 13 type 13 Swiss plug – 5023-0284                                    |
| Including shelf supports     8012-1       Shelf, Incl. shelf supports, stainless steel     8012-1       VLAN kit, wireless connection between ULT units and APT-COM4,     8012-2       IMS or customer solution.     8012-2  | cing kit consisting of de-icing tray, wiper and scraper  | 8012-1900  |
| Shelf, Incl. shelf supports, stainless steel       8012-1         WLAN kit, wireless connection between ULT units and APT-COM4,       8012-2         IMS or customer solution.       8012-2  |  | 8012-1903  |
| IMS or customer solution.  | e steel stee | 8012-190   |
| STANDARDS & APPROVALS  |  | 8012-226   |
|  | S or customer solution.  | 0012 220   |
|  |  |  |
| normy Star contified (2rd part)  | ANDARDS & APPROVALS  |  |
|  | ergy Star certified (3rd part)   | ye   |
|  |  | ye   |
| Applied voluntarily: EN61010-1, EN61010-2-11<br>if wished, this could also be listed in the CE DoC)  | plied voluntarily: EN61010-1, EN61010-2-11<br>vished, this could also be listed in the CE DoC)   |  |
|  |  | ye   |
| RoHS Directive (EN IEC 63000:2018)   | IS Directive (EN IEC 63000:2018)   |  |
|  | npliant with DIN 13277   | Only partly. ULTs are validated referring to DIN<br>DIN 12880; 2007-09 |
| Din 12880, 2007  |  |  |
| ABORATORY TEST MEASUREMENTS  | BORATORY TEST MEASUREMENTS   |  |
|  |  | 360 mir  |
|  |  | 47dB/  |
|  |  | 250 mir  |
|  | 1  | 2,51   |
| •  | nperature variation  | 2,0  |
| inergy consumption 7,9 kW/2  | •  | 1,5  |

Products are subject to change due to enhancements and continuous development. Vestfrost Solutions reserve the right to alter any information, without further notice.





| SELLING POINTS                                |                              |
|---|------------------------------|
| Lowest energy consumption in its class        | 7,9                          |
| Environmentally-friendly refrigerants         | R290/R170                    |
| Thermal insulation with unique long-life VIPs | vacuum insulation panels     |
| Rust proof interior                           | Stainless steel 1.4016 grade |
| Individual safety concept                     | option                       |
| Temperature range [°C]                        | -90 °C to -40 °C             |
| Compressor cooling                            | cascade                      |
| Innovative door gasket                        | reduce ice built-up          |
| Detachable inner doors                        | stainless steel              |
| Zero-voltage alarm contact                    | in-house alarm system        |
| Internal data logger                          | USB read out                 |
| Ethernet interface                            | yes                          |
| Access ports                                  | 2x Ø28mm rear                |
| Shipping pallet                               | without forklift             |
| Packaging                                     | Recyclable                   |
| Powder-coating                                | Solvent free                 |



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