

## Technical Features

|                                      |                                          |
|--------------------------------------|------------------------------------------|
| <b>Net Storage Volume</b>            | 358 lt (12,64 cu ft)                     |
| <b>2" Cryoboxes Max Capacity</b>     | 240                                      |
| <b>1,5/2ml Vials Max Capacity</b>    | 24.000                                   |
| <b>Racks Max Capacity</b>            | 20                                       |
| <b>Temperature Setting Range</b>     | -40°C/-90°C                              |
| <b>Temperature Control Range</b>     | -40°C/-86°C                              |
| <b>Factory T Set Point</b>           | -80°C                                    |
| <b>Ambient Operating Temperature</b> | +10°C/+35°C, 50% RH (N-ST Climate Class) |
| <b>Noise Level</b>                   | < 52 dBA                                 |

|                                  |                               |
|----------------------------------|-------------------------------|
| <b>Power Supply</b>              | 230V ±10% / 50Hz              |
| <b>Standard Electrical Plug</b>  | Industrial plug CEE 16A, 2P+E |
| <b>Max Power Absorption</b>      | 7A                            |
| <b>Daily Energy Consumption*</b> | 11,00 kWh/24h                 |

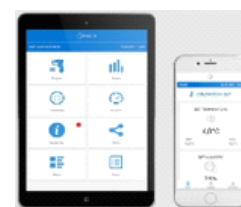


|                              |                                                               |
|------------------------------|---------------------------------------------------------------|
| <b>External Dimensions**</b> | W 969 x D 760 x H 1859 mm   W 38,19 x D 29,92 x H 72,83 inch. |
| <b>Internal Dimensions</b>   | W 702 x D 460 x H 1110 mm   W 27,64 x D 18,11 x H 43,70 inch. |
| <b>Weight</b>                | 270 kg                                                        |

|                           |                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Packing Dimensions</b> | Carton Box + Pallet: W 1200 x D 900 x H 2100 mm, 280 kg<br>Wooden Crate: W 1300 x D 1300 x H 2200 mm, 360 kg |
|---------------------------|--------------------------------------------------------------------------------------------------------------|

|                                |                                                                                       |
|--------------------------------|---------------------------------------------------------------------------------------|
| <b>External Surface</b>        | Anti-corrosion hot-dip galvanized steel sheet, covered with PVC film                  |
| <b>Internal Surface</b>        | AISI 304 18/10 stainless steel                                                        |
| <b>External/Internal Edges</b> | Rounded to facilitate cleaning                                                        |
| <b>Insulation Type</b>         | High-density CFC-free PUR foam                                                        |
| <b>Insulation Thickness</b>    | 140 mm on sides / 140 mm rear / 110 mm outer door                                     |
| <b>Door Type</b>               | Solid, with n°3 heavy-duty side hinges for the max stability                          |
| <b>Door Sealing</b>            | Triple-layer silicone gasket, heated by the refrigerant to avoid the formation of ice |
| <b>Handle</b>                  | Ergonomic with integrated key-lock system (n°2 keys included)                         |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Standard Configuration</b> | n°3 shelves in stainless steel (AISI 304), adjustable in height (adjustment steps of 1.5 cm) with max load of 55kg each<br>n°4 insulated inner doors (inner chamber divided into 4 compartments); inner doors can be removed for cleaning<br>n°4 swivel castors, each one equipped with a leveling foot for a total ground stabilization<br>Porthole (Ø 25 mm) for introducing in the chamber independent probes connected to external monitoring system/BMS<br>External vacuum relief valve (automatic & manual pressure release); the valve can be removed for cleaning operations<br>Back-up battery with self-charging circuit to ensure recording of T and alarm data in case of power failure (48 h autonomy)<br>Volt-free contact for connection to an external alarm monitoring system and BMS |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



## Cooling System

|                                       |                                                                                                        |
|---------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Cooling</b>                        | Static cooling, with 2-stage cascade refrigeration system; air-cooled condenser with filterless design |
| <b>Compressor</b>                     | n°2 hermetic compressors (with thermal protector)                                                      |
| <b>HC Refrigerant (CFC/HCFC free)</b> | 1st stage: R1270 (gr. 150)<br>2nd stage: R170 (gr. 90)                                                 |
| <b>Defrost System</b>                 | Manual                                                                                                 |

## PL ADV Control System

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Controller</b>                                                                   | Microprocessor Controller                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Display</b>                                                                      | LED display with 5-keys capacitive keyboard, with 0.1°C resolution                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Temperature Probes</b>                                                           | n°2 NTC probes (for evaporator / temperature control) + n°1 Pt1000 (for monitoring)                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Access Control</b>                                                               | 3-levels password security system (User/Service/Admin)                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Connectivity</b>                                                                 | In-built Wi-Fi module for remote connection to mobile APP ConneX (for IOS & Android)/Cloud<br>The main screen displays the temperature set point, functional icons, current time, alarm events<br>Data logger function with automatic recording of temperature data (at 30-seconds intervals) and events<br>Flash memory capable of recording data for a minimum period of 1 year<br>In-built power stabilizer with linear voltage regulation (± 20V) |
| <b>Features</b>                                                                     | Possibility of remotely setting and modifying the device parameters and to view the temperature graph in real time<br>Possibility to download data in CSV/PDF format via APP on smartphone/tablet/PC (no need for USB)<br>Automatic sending of push notifications (via APP) and/or email (via Cloud) in the event of an alarm<br>Possibility of setting automatic sending of weekly temperature and event reports via email                           |
| <b>Remote Management and Monitoring with IOS/Android ConneX APP and/or KW Cloud</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Main Alarms List (Audio/visual notification)</b>                                 | <ul style="list-style-type: none"> <li>- Power failure</li> <li>- Door open (interval can be freely set by the user)</li> <li>- High/Low T (limits can be set freely by the user)</li> <li>- Temperature probes failure</li> <li>- Back-up battery failure / low charge</li> <li>- Dirty condenser / High ambient temperature</li> </ul>                                                                                                              |



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## Accessories Available On Request

Frontal/Lateral extraction racks made in AISI 304 stainless steel for cryoboxes storage

Additional stainless steel (AISI 304) shelf

Additional internal/external porthole (Ø 25 mm)

Voltage stabilizer

Weekly cycle chart disk recorder (including n°52 spare paper disks + n°1 pen)

CO2 backup system with 12VDC (complete with independent thermal sensor/T controller, 24Ah battery) for activation in case of mechanical/power failure

LN2 backup system with 12VDC (complete with independent thermal sensor/T controller, 24Ah battery) for activation in case of mechanical/power failure

Electrical plug different from standard

Packing in wooden crate



Ergonomic handle with key-lock system



Shelves adjustment system



Insulated inner doors



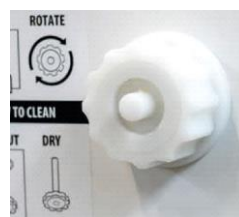
Heated triple-layer silicone gasket



PL ADV controller



Remote alarm contacts



Vacuum relief valve



CO2/LN2 back-up systems



Frontal extraction racks



Lateral extraction racks

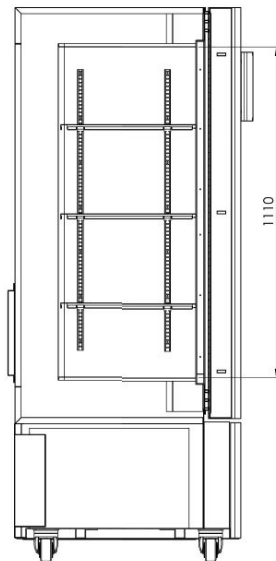
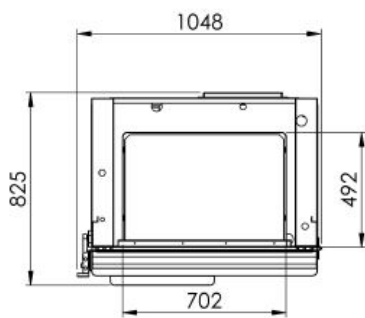
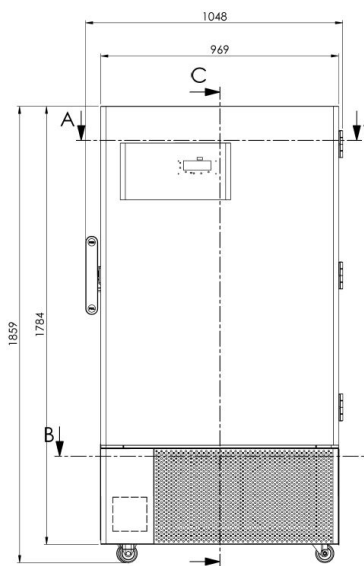
\* with +20°C ambient temperature

\*\* Exterior dimensions of main cabinet only, excluding handle and other external projections. For complete details, see the dimensional drawings below



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Dimensional Diagram





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**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

**[www.wolflabs.co.uk](http://www.wolflabs.co.uk)**

**Tel : 01759 301142**

**Fax : 01759 301143**

**[sales@wolflabs.co.uk](mailto:sales@wolflabs.co.uk)**

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