



## Technical Features

|                               |                                          |
|-------------------------------|------------------------------------------|
| Net Storage Volume            | 255 lt (9,00 cu ft)                      |
| Temperature Range             | 0°C/+50°C                                |
| Factory Set Point             | +25°C                                    |
| Temperature Uniformity        | ± 1°C                                    |
| Temperature Stability         | ± 1°C                                    |
| Ambient Operating Temperature | +10°C/+38°C, 50% RH (N-ST Climate Class) |
| Noise Level                   | < 42 dBA                                 |

|                          |                                              |
|--------------------------|----------------------------------------------|
| Power Supply             | 230V ±10% / 50Hz                             |
| Standard Electrical Plug | Schuko                                       |
| Power Absorption         | 0,68A                                        |
| Daily Energy Consumption | 1,6 kWh/24h (with +20°C ambient temperature) |

|                     |                                                               |
|---------------------|---------------------------------------------------------------|
| External Dimensions | W 670 x D 670 x H 1830 mm   W 26,37 x D 26,37 x H 72,05 inch. |
| Internal Dimensions | W 530 x D 460 x H 1400 mm   W 20,86 x D 18,11 x H 55,11 inch. |
| Weight              | 85 kg                                                         |

|                    |                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------|
| Packing Dimensions | Carton Box + Pallet: W 800 x D 800 x H 2000 mm, 90 kg<br>Wooden Cage: W 850 x D 850 x H 2350 mm, 150 kg |
|--------------------|---------------------------------------------------------------------------------------------------------|

|                         |                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------|
| External Surface        | Anti-corrosion hot-dip galvanized steel sheet, covered with PVC film                               |
| Internal Surface        | AISI 304 18/10 stainless steel                                                                     |
| External/Internal Edges | Rounded to facilitate easy cleaning                                                                |
| Insulation Thickness    | 65 mm on sides / 65 mm rear (High-density CFC-free PUR foam)                                       |
| Door Type               | Double-layer glass, with self-closing system (with opening angle ≤90°), ergonomic handle, key-lock |
| Door Sealing            | Magnetic silicone gasket placed all over the door's frame                                          |
| Lighting                | LED light, with automatic activation when the door is opened                                       |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Configuration | n°4 wire shelves in PVC-coated steel, height adjustable (Dimensions W 520 x D 390 mm) with max load 35 kg each<br>n°4 swivel castors (front castors equipped with brakes)<br>Porthole (Ø 25 mm) for independent probes connected to external monitoring system/BMS<br>Backup battery with self-charging circuit (48 hours autonomy in case of power failure)<br>Volt-free contact for connection to an external alarm monitoring system<br>RFI filter |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Cooling/Heating System

|                             |                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------|
| Cooling                     | Forced-air cooling, with automatic shut-off of the evaporator fan during door opening  |
| Heating                     | Obtained with specific heating elements with low thermal density                       |
| Heat Exchangers             | Placed in a separate area from the internal chamber, for an high uniform thermostating |
| Thermostatic Flow           | Driven by a high efficiency helical fan                                                |
| Compressor                  | Fully sealed hermetic compressor with thermal protector                                |
| Refrigerant (CFC/HCFC free) | R600a                                                                                  |

## HPL Control System

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Controller         | Microprocessor Controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Display            | 7" LED touch screen display with 0.1°C resolution                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Temperature Probes | n°2 Pt100 Class A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Access Control     | 3-levels password security system (User/Service/Admin)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Data Export        | USB port, SD card slot, RJ45 port (ModBus TCP protocol) for LAN connection to PC/BMS                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Features           | The main screen displays the T set point, real time T graph, high/low T limits, battery level, date/time<br>Data logger function with automatic recording of temperature data (at 30-seconds intervals) and events<br>Internal memory (built-in 4GB SD card) capable of recording data for a minimum period of 10 years<br>Data history menu for consultation and selection of temperature data records, events and alarms of the device<br>In-built power stabilizer with linear voltage regulation (±20 Volts) |





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**Main Alarms List**  
**(Audio/visual notification)**

- Power failure
- Door open (the alarm interval can be freely set by the user)
- High/Low temperature (alarm limits can be set freely by the user)
- Temperature probes failure
- Back-up battery failure / low charge

**Thermal Cycles**

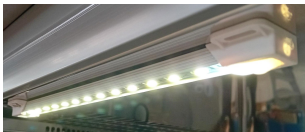
- Program/segment/remaining time on display  
Program execution repetitions: from 0 to 9999
- 1 program with 32 segments
  - 2 programs with 16 segments each
  - 8 programs with 4 segments each

**Accessories Available On Request**

Additional adjustable wire shelf in PVC-coated steel  
Additional internal/external porthole (Ø 25 mm)  
Perforated drawer (sliding on telescopic guides) in AISI 304 18/10 stainless steel (dimension W 535 x D 635 x H 130 mm)  
Weekly cycle chart disk recorder (including n°52 spare paper disks + n°1 pen)  
Voltage stabilizer  
GSM module with SIM card bridge  
Wi-Fi kit (TCP/IP Modbus) for connection to BMS/SCADA and remote monitoring  
Electric lock for door opening with PASSWORD  
Electric lock for door opening with BADGE/RFID  
Electrical outlet different from standard Shucko  
Extended temperature probes for pharma industry  
Internal power socket  
Internal ventilation fan speed variator  
Packing in wooden cage



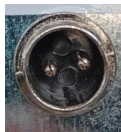
Adjustable wire shelf



LED light



Int/Ext. Porthole



Remote alarm contacts



Door gasket



Swivel castor with brake



Door switch



HPL controller



Pull-out stainless steel drawers (optional)



Voltage stabilizer (optional)



7-days Chart recorder (optional)



Internal ventilation fan speed variator (optional)



Internal power socket (optional)



Wooden cage (optional)



# WolfLabs

**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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