



Technical Features

Net Storage Volume	1315 lt (46,43 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	< 45 dBA

Power Supply	230V ±10% / 50Hz
Standard Electrical Plug	Schuko
Power Absorption	4,5A
Daily Energy Consumption	4,5 kWh/24h (with +20°C ambient temperature)

External Dimensions	W 1460 x D 840 x H 2070 mm W 57,48 x D 33,08 x H 81,50 inch.
Internal Dimensions	W 1300 x D 670 x H 1510 mm W 51,18 x D 26,38 x H 59,45 inch.
Weight	230 kg

Packing Dimensions	Carton Box + Pallet: W 1500 x D 900 x H 2200 mm, 240 kg Wooden Cage: W 1650 x D 1000 x H 2400 mm, 340 kg
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External Surface	Satin-finished AISI 304 stainless steel
Internal Surface	AISI 304 18/10 stainless steel
External/Internal Edges	Rounded to facilitate easy cleaning
Insulation Thickness	80 mm on sides / 80 mm rear (High-density CFC-free PUR foam)
Door Type	n°2 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°6 wire shelves in PVC-coated steel, height adjustable (Dimensions W 530 x D 650 mm) with max load 35 kg each n°4 swivel castors (front castors equipped with brakes) Porthole (Ø 25 mm) for independent probes connected to external monitoring system/BMS Backup battery with self-charging circuit (48 hours autonomy in case of power failure) Volt-free contact for connection to an external alarm monitoring system RFI filter
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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)	R455a

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 The main screen displays the T set point, real time T graph, high/low T limits, battery level, date/time Data logger function with automatic recording of temperature data (at 30-seconds intervals) and events
Features	Internal memory (built-in 4GB SD card) capable of recording data for a minimum period of 10 years Data history menu for consultation and selection of temperature data records, events and alarms of the device 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

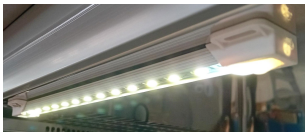
- Program/segment/remaining time on display
Program execution repetitions: from 0 to 9999
- 1 program with 32 segments
 - 2 programs with 16 segments each
 - 8 programs with 4 segments each

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



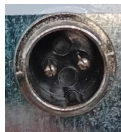
Adjustable wire shelf with fixing system



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)



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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

Tel : 01759 301142

Fax : 01759 301143

sales@wolflabs.co.uk

Please contact us if this literature doesn't answer all your questions.