



Technical Features

Net Storage Volume	1045 lt (36,90 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	< 49 dBA

Power Supply	230V ±10% / 50Hz
Standard Electrical Plug	Schuko
Power Absorption (max)	14A

External Dimensions	W 1500 x D 920 x H 2080 mm W 59,06 x D 36,22 x H 81,89 inch.
Internal Dimensions	W 1340 x D 650 x H 1200 mm W 52,76 x D 25,59 x H 47,24 inch.
Weight	250 kg

Packing Dimensions	Carton Box + Pallet: W 1600 x D 930 x H 2250 mm, 270 kg Wooden Crate: W 1700 x D 1300 x H 2450 mm, 350 kg
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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	75 mm on sides / 75 mm rear (High-density CFC-free PUR foam)
Door Type	n°2 solid, with self-closing system (with opening angle ≤90°), recessed groove handle
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	Tempered glass inner door n°6 PVC-coated steel grid shelves, height adjustable (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/Relative Humidity Systems

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)	R134a
Humidity	Psychrometric principle, T difference constant between internal air and counter-base water tank.

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 Data logger function with automatic recording of temperature data (at 30-seconds intervals) and events 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) - 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
Main Alarms List (Audio/visual notification)	



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

Thermal Cycles

Accessories Available On Request

Additional adjustable wire shelf in PVC-coated steel
Additional internal/external porthole (Ø 25 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
Electrical outlet different from standard Shucko
Extended temperature probes for pharma industry
Electric lock for door opening with PASSWORD
Electric lock for door opening with BADGE/RFID
Internal power socket
Packing in wooden cage



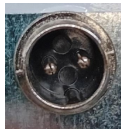
Adjustable wire shelf



LED light



Int/Ext. Porthole



Remote alarm contacts



Door gasket



Swivel castor with brake



Door switch



HPL controller



Internal power socket (optional)



Voltage stabilizer (optional)



7-days Chart recorder (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.

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