

Technical Features

Net Storage Volume	506 lt (17,87 cu ft)
2" Cryoboxes Max Capacity	320
1,5/2ml Vials Max Capacity	32.000
Racks Max Capacity	20
Temperature Control Range	-20°C/-45°C
Factory T Set Point	-40°C
Ambient Operating Temperature	+10°C/+35°C, 50% RH (N-ST Climate Class)
Noise Level	< 45 dBA

Power Supply	230V ±10% / 50Hz
Standard Electrical Plug	Industrial plug CEE 16A, 2P+E
Max Power Absorption	5A
Daily Energy Consumption*	4,50 kWh/24h



External Dimensions**	W 969 x D 955 x H 1859 mm W 38,19 x D 37,70 x H 74,40 inch.
Internal Dimensions	W 702 x D 650 x H 1110 mm W 27,64 x D 25,59 x H 43,70 inch.
Weight	275 kg

Packing Dimensions	Carton Box + Pallet: W 1200 x D 1200 x H 2100 mm, 285 kg Wooden Crate: W 1300 x D 1300 x H 2100 mm, 375 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 cleaning
Insulation Type	High-density CFC-free PUR foam
Insulation Thickness	140 mm on sides / 140 mm rear / 110 mm outer door
Door Type	Solid, with n°3 heavy-duty side hinges for the max stability
Door Sealing	Triple-layer silicone gasket, heated by the refrigerant to avoid the formation of ice
Handle	Ergonomic with integrated key-lock system (n°2 keys included)

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

Cooling	Static cooling, n°1 hermetic compressor (with thermal protector) ; air-cooled condenser with filterless design
HC Refrigerant (CFC/HCFC free)	R1270 (gr. 120)
Defrost System	Manual

HPL Control System

Controller	Microprocessor Controller
Display	7" LED touch screen display (with ± 0.1°C adjustment steps)
Temperature Probes	n°2 Pt100 Class A
Access Control	3-levels password security system (User/Service/Admin)
Data Export	USB port / SIM card slot / SD card slot / RJ45 port for LAN connection (TCP/IP Modbus) to BMS/SCADA The main screen displays the T set point, high/low T limits, battery level, date/time, current voltage and real-time T graph 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 ECO mode (user can set an automatic increase of the T set point in a defined time interval, to reduce energy consumption)
Features	- 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 - Dirty condenser / High ambient temperature
Main Alarms List	
(Audio/visual notification)	



Accessories Available On Request

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

Additional internal/external porthole (Ø 25 mm)

Additional stainless steel (AISI 304) shelf

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 plug different from standard

Packing in wooden crate



Ergonomic handle with key-lock system



Shelves adjustment system



Insulated inner door



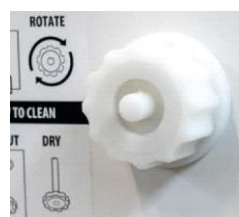
Heated triple-layer silicone gasket



HPL controller



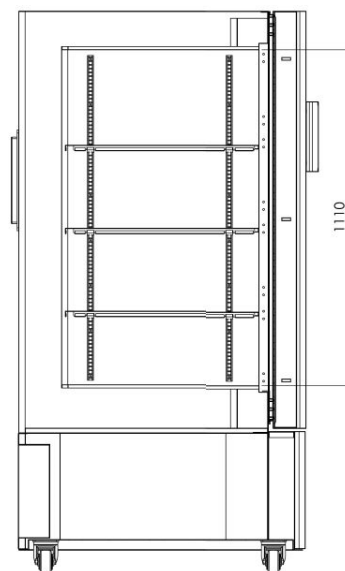
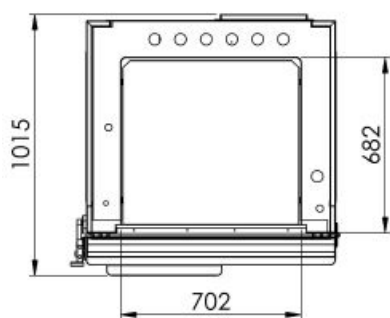
Remote alarm contacts



Vacuum relief valve

* 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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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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