



TECNILABO

HS Code: 84184080

KUB75 HPL

ULT Freezer -80°C

Technical Features

Net Storage Volume	86 lt (3,04 cu ft)
2" Cryoboxes Max Capacity	48
1,5/2ml Vials Max Capacity	4.800
Racks Max Capacity	6
Temperature Setting Range	-40°C/-90°C
Temperature Control Range	-40°C/-86°C
Factory T Set Point	-80°C
Ambient Operating Temperature	+10°C/+35°C, 50% RH (N-ST Climate Class)
Noise Level	< 49 dBA



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



External Dimensions	W 990 x D 635 x H 780 mm W 38,97 x D 25,00 x H 30,71 inch.
Internal Dimensions	W 428 x D 343 x H 588 mm W 16,85 x D 13,50 x H 23,15 inch.
Weight	100 kg

Packing Dimensions	Carton Box + Pallet: W 1100 x D 800 x H 1000 mm, 110 kg Wooden Crate: W 1200 x D 900 x H 1100 mm, 150 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 + V.I.P. (Vacuum Insulated Panel)
Insulation Thickness	90 mm on sides (70 mm PUR + 20 mm V.I.P.) / 90 mm rear / 80 mm outer door
Door Type	Solid, with n°2 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°1 shelf in stainless steel (AISI 304), adjustable in height (adjustment steps of 1.5 cm) with max load of 55kg each n°1 insulated inner door (inner chamber divided into 2 compartments); inner door can be removed for cleaning n°4 leveling feet 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, with 2-stage cascade refrigeration system; air-cooled condenser with filterless design
Compressor	n°2 hermetic compressors (with thermal protector)
HC Refrigerant (CFC/HCFC free)	1st stage: R452a (gr. 400) 2nd stage: R508b (gr. 100) + R170 (gr. 100)
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
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 ECO mode (user can set an automatic increase of the T set point in a defined time interval, to reduce energy consumption) - Power failure - Door open (the alarm interval can be freely set by the user)
Main Alarms List (Audio/visual notification)	- 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



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Accessories Available On Request

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

Additional stainless steel (AISI 304) shelf

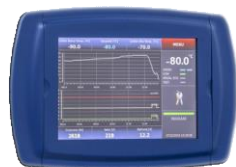
Voltage stabilizer

GSM Module

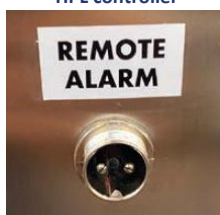
Wi-Fi kit (TCP/IP Modbus) for connection to BMS/SCADA and remote monitoring

Electrical plug different from standard

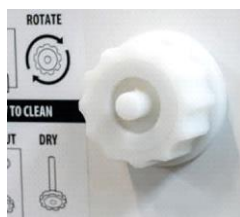
Packing in wooden crate



HPL controller



Remote alarm contacts



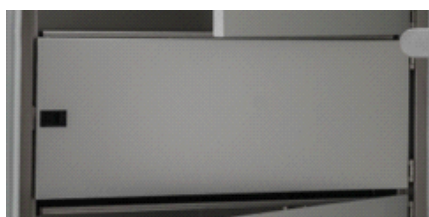
Vacuum relief valve



Ergonomic handle with key-lock system



Shelves adjustment system



Insulated inner door



Heated triple-layer silicone gasket



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.

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