



TECNILABO

HS Code: 84184080

KFS 100 HTS

Under-the-Bench Biomedical Freezer -10°C / -30°C

Intended Use Safe storage of sensitive biological samples/vaccines/medications

Technical Features

Net Storage Volume	127 lt (4,48 cu ft)
Temperature Range	-10°C/-30°C
Temperature Uniformity	± 3°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	0,56 A
Daily Energy Consumption	2,00 kWh/24h (with +20°C ambient temperature)



External Dimensions	W 730 x D 790 x H 832 mm W 28,74 x D 31,10 x H 32,75 inch.
Internal Dimensions	W 550 x D 550 x H 420 mm W 21,65 x D 21,65 x H 16,53 inch.
Weight	45 kg

Packing Dimensions	Carton Box + Pallet: W 800 x D 750 x H 1000 mm, 55 kg Wooden Cage: W 900 x D 1000 x H 1200 mm, 90 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 for easy and optimal cleaning
Insulation Type	High-density CFC-free PUR foam
Insulation Thickness	90 mm on sides / 90 mm rear
Door Type	Solid, with self-closing system (with opening angle ≤90°), recessed groove 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°3 wire shelves made in PVC-coated steel, adjustable in height with max load 35 kg each - n°4 rollers + n°2 front leveling feet - Porthole (Ø 25 mm) for introducing in the chamber independent probes connected to external monitoring system/BMS - 7,2A 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 - Internal vacuum relief valve
Max Shelves / Drawers	3 / 3 (or a mix of them)

Cooling System

Cooling	Forced-air cooling, with automatic shut-off of the evaporator fan during door opening
Compressor	Fully sealed hermetic compressor with thermal protector
Refrigerant (CFC/HCFC free)	R290 (gr. 45)
Defrost System	No-Frost system (avoids the formation of frost through the non-excludable circulation of cold air inside the chamber)

HTS Control System

Controller	Microprocessor Controller
Display	5" TFT LCD touch screen display with 0.1°C resolution
Temperature Probes	n°1 NTC + n°1 Pt100 Class A
Available Languages	Italian / English / German / French / Spanish / Danish / Croatian / Polish / Turkish / Dutch
Access Control	3-levels password security system (User/Service/Admin)
Data Export	USB, SD card
Features	- The main screen displays the temperature set point, high/low T limits, battery level, date/time, LED light ON/OFF switch - Possibility to view the real-time temperature graph on the display - 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 - Possibility to display the temperature in °C (standard) or °F - In-built power stabilizer with linear voltage regulation (±20 Volts) - Power failure
Main Alarms List (Audio/visual notification)	- 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

Standard Features



Adjustable wire shelf with fixing system



LED light



n°4 rollers + n°2 leveling feet



Int/Ext. Porthole



Door switch



Remote alarm contacts



HTS controller



Door gasket



Back-up battery

Optional Accessories Available On Request

Additional height-adjustable wire shelf made in PVC-coated steel (n°2 stainless steel guides included)
(Shelf's size W 530 x D 430 mm)



RS485 bridge module with serial port for PC/BMS connectivity



Perforated drawer (sliding on telescopic guides) made in AISI 304 18/10 stainless steel
(Drawer's size W 500 x D 495 x H 100 mm)



RJ45 port for Ethernet connection (ModBus TCP/IP) to BMS for remote monitoring



Pt100 temperature probe enclosed in vial filled with glycol solution (for product simulation)



RJ45 port for connection to the free KW Cloud and APP (for remote monitoring, data downloading and setting alarm notifications via email in real time)



Weekly cycle chart disk recorder (including n°52 spare paper disks + n°1 pen)



Wi-Fi connection module to the free KW Cloud and APP (for remote monitoring, data downloading and setting alarm notifications via email in real time)



Voltage stabilizer



Electric lock for door opening with PASSWORD
(Possibility to register up to n°32 user passwords)



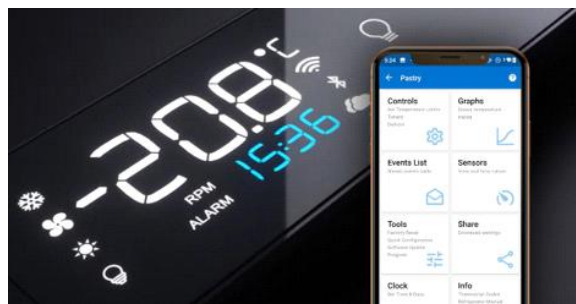
Packing in wooden cage



Electric lock for door opening with BADGE/RFID



Cloud & APP Remote Control



ConneX is the free application (IOS/ANDROID) that allows end users to wirelessly monitor and control PL ADV/HTS controllers installed in refrigeration units. It allows complete control in real time and also remotely of one or more devices, to consult the weekly temperature graph (downloading the data in PDF/Excel format) and to receive alerts via push messages and email.



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

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