



TECNILABO

HS Code: 84184080

KBPF 400

Biomedical Freezer -20°C / -40°C

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

Technical Features

Net Storage Volume	400 lt (14,12 cu ft)
Temperature Range	-20°C/-40°C
Factory Temperature Set Point	-40°C
Temperature Uniformity	± 5°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	4A
Daily Energy Consumption	3,90 kWh/24h (with +20°C ambient temperature)

External Dimensions	W 730 x D 800 x H 1938 mm W 28,74 x D 31,49 x H 76,30 inch.
Internal Dimensions	W 550 x D 550 x H 1330 mm W 21,65 x D 21,65 x H 52,36 inch.
Weight	110 kg

Packing Dimensions	Carton Box + Pallet: W 800 x D 900 x H 2000 mm, 115 kg Wooden Cage: W 900 x D 1000 x H 2200 mm, 180 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 an optimal and easy 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°4 wire shelves made in PVC-coated steel, adjustable in height with max load 35 kg each - n°4 swivel castors (front castors equipped with brakes) - 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 - Internal vacuum relief valve
Max Shelves / Drawers	6 / 6 (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)	R1270
Defrost System	Manual

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)
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





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Standard Features



Adjustable wire shelf with fixing system



LED light



Swivel castors with brake



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)



n°2 front leveling feet kit



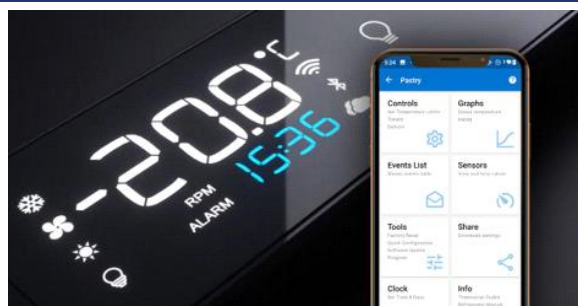
Electric lock for door opening with BADGE/RFID



Packing in wooden cage



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.

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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