



TECNILABO

HS Code: 84184080

**KBPF 250**

Biomedical Freezer -20°C / -40°C

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

## Technical Features

|                                      |                                          |
|--------------------------------------|------------------------------------------|
| <b>Net Storage Volume</b>            | 254 lt (8,97 cu ft)                      |
| <b>Temperature Range</b>             | -20°C/-40°C                              |
| <b>Factory Temperature Set Point</b> | -40°C                                    |
| <b>Temperature Uniformity</b>        | ± 5°C                                    |
| <b>Ambient Operating Temperature</b> | +10°C/+38°C, 50% RH (N-ST Climate Class) |
| <b>Noise Level</b>                   | < 45 dBA                                 |

|                                 |                                               |
|---------------------------------|-----------------------------------------------|
| <b>Power Supply</b>             | 230V ±10% / 50Hz                              |
| <b>Standard Electrical Plug</b> | Schuko                                        |
| <b>Power Absorption</b>         | 4A                                            |
| <b>Daily Energy Consumption</b> | 3,50 kWh/24h (with +20°C ambient temperature) |

|                            |                                                               |
|----------------------------|---------------------------------------------------------------|
| <b>External Dimensions</b> | W 730 x D 800 x H 1448 mm   W 28,74 x D 31,49 x H 57,00 inch. |
| <b>Internal Dimensions</b> | W 550 x D 550 x H 840 mm   W 21,65 x D 21,65 x H 33,07 inch.  |
| <b>Weight</b>              | 70 kg                                                         |

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| <b>Packing Dimensions</b> | Carton Box + Pallet: W 800 x D 900 x H 1600 mm, 85 kg<br>Wooden Cage: W 900 x D 1000 x H 1800 mm, 130 kg |
|---------------------------|----------------------------------------------------------------------------------------------------------|

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|--------------------------------|---------------------------------------------------------------------------------------------|
| <b>External Surface</b>        | Anti-corrosion hot-dip galvanized steel sheet, covered with PVC film                        |
| <b>Internal Surface</b>        | AISI 304 18/10 stainless steel                                                              |
| <b>External/Internal Edges</b> | Rounded for an optimal and easy cleaning                                                    |
| <b>Insulation Type</b>         | High-density CFC-free PUR foam                                                              |
| <b>Insulation Thickness</b>    | 90 mm on sides / 90 mm rear                                                                 |
| <b>Door Type</b>               | Solid, with self-closing system (with opening angle ≤90°), recessed groove handle, key-lock |
| <b>Door Sealing</b>            | Magnetic silicone gasket placed all over the door's frame                                   |
| <b>Lighting</b>                | LED light, with automatic activation when the door is opened                                |

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| <b>Standard Configuration</b> | <ul style="list-style-type: none"><li>- n°4 wire shelves made in PVC-coated steel, adjustable in height with max load 35 kg each</li><li>- n°4 swivel castors (front castors equipped with brakes)</li><li>- Porthole (Ø 25 mm) for introducing in the chamber independent probes connected to external monitoring system/BMS</li><li>- 7,2A backup battery with self-charging circuit (48 hours autonomy in case of power failure)</li><li>- Volt-free contact for connection to an external alarm monitoring system</li><li>- Internal vacuum relief valve</li></ul> |
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| <b>Max Shelves / Drawers</b> | 5 / 5 (or a mix of them) |
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## Cooling System

|                                    |                                                                                       |
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| <b>Cooling</b>                     | Forced-air cooling, with automatic shut-off of the evaporator fan during door opening |
| <b>Compressor</b>                  | Fully sealed hermetic compressor with thermal protector                               |
| <b>Refrigerant (CFC/HCFC free)</b> | R1270                                                                                 |
| <b>Defrost System</b>              | Manual                                                                                |

## HTS Control System

|                            |                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------|
| <b>Controller</b>          | Microprocessor Controller                                                                    |
| <b>Display</b>             | 5" TFT LCD touch screen display with 0.1°C resolution                                        |
| <b>Temperature Probes</b>  | n°1 NTC + n°1 Pt100 Class A                                                                  |
| <b>Available Languages</b> | Italian / English / German / French / Spanish / Danish / Croatian / Polish / Turkish / Dutch |
| <b>Access Control</b>      | 3-levels password security system (User/Service/Admin)                                       |
| <b>Data Export</b>         | USB, SD card                                                                                 |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Features</b> | <ul style="list-style-type: none"><li>- The main screen displays the temperature set point, high/low T limits, battery level, date/time, LED light ON/OFF switch</li><li>- Possibility to view the real-time temperature graph on the display</li><li>- Data logger function with automatic recording of temperature data (at 30-seconds intervals) and events</li><li>- Internal memory (built-in 4GB SD card) capable of recording data for a minimum period of 10 years</li><li>- Data history menu for consultation and selection of temperature data records, events and alarms of the device</li><li>- Possibility to display the temperature in °C (standard) or °F</li><li>- In-built power stabilizer with linear voltage regulation (±20 Volts)</li><li>- Power failure</li></ul> |
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| <b>Main Alarms List<br/>(Audio/visual notification)</b> | <ul style="list-style-type: none"><li>- Door open (the alarm interval can be freely set by the user)</li><li>- High/Low temperature (alarm limits can be set freely by the user)</li><li>- Temperature probes failure</li><li>- Back-up battery failure / low charge</li></ul> |
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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



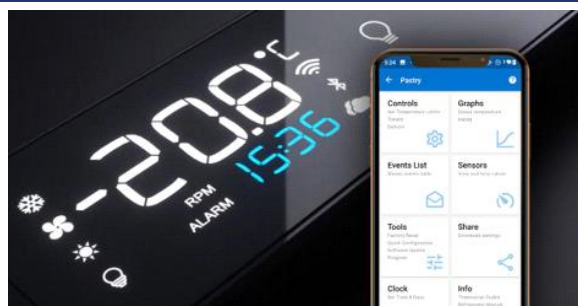
Electric lock for door opening with BADGE/RFID



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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