

Blood Bank Refrigerator

BBR 440 PRO



TECHNICAL SPECIFICATIONS:

- **Structure** : upright type, realized in sheet steel epoxy coated white colour both in- and outside or in stainless steel 18/10 AISI 304 both in- and outside. All the internal corners are rounded to make easy any cleaning operations and the internal bottom is tray type to contain spills
- **Insulation** : high density (40 Kg/m³) foamed-in-place polyurethane, with a thickness of 50 mm. CFC-free
- **Feet** : Nr 4 made in stainless steel 18/10 AISI 304, adjustable in height for levelling
- **Glass door** : Nr. 1, hinged, made a perimetrical aluminium frame and three layers of tempered insulating glass, with vacuum among the glass layers in order to increase the insulating rate. The door is provided with a removable magnetic rubber gasket in order to grant a perfect hermetic closing. The handle is realized in aluminium and it is fixed at middle height in the door. The door is also fitted with a spring loaded automatic closing device for openings inferior then 90° and special door switch that stops the internal ventilation at the door opening (to limit the air cold loss)
- **Internal equipment** : Nr 6, storage drawers realized stainless steel 18/10 AISI 304. The drawers are mounted on special ball-bearing anti-tilt telescopic stainless steel slides that allows the drawer complete extraction and they are divided internally in 3 storage columns and fitted with adjustable plastic dividers to keep the bags separated among them. The drawers can easily removed and adjusted in height without the use of any tool
- **Storage capacity** : Nr 180, 450 ml blood bags
- **Internal lighting** : Nr 1 neon tube, mounted in the internal ceiling of the storage chamber, with activation through a special switch located on the control panel
- **Control panel "PRO"** : located in the top part of the structure (above the door) is microprocessor operating with soft-touchpads and LCD display, allowing the control of all the functions and working status of the refrigerator (including alarms). The control panel is battery operating in order to grant the functioning of the alarms even in case of power failure. The main functions of the control panel are :
 - Large (2 lines writings) LCD display, retro-illuminated white colour with black writings, indicating the appliance working status (compressor running, defrostings, alarms, actual temperature, etc.)
 - Digital temperature adjusting and displaying with an accuracy of 0,5°C
 - Lighting switch
 - Keyboard block with a password to avoid tampering from unauthorized persons
 - Visual and acoustic alarm for high or low temperature with programmable limits
 - Visual and acoustic alarm for door ajar, delayed of 30 seconds to allow the standard operations
 - Visual and acoustic alarm for power failure
 - Visual and acoustic alarm for battery discharged
 - Visual and acoustic alarm for condenser dirty
 - Possibility of muting of the acoustic alarms, with the continuous flashing of the signalling of the alarm condition on the display, until the alarm situation is not finished
 - Test alarm switch for both battery and alarm limits
 - Alarms memory with the possibility of checking from the display, when the alarm is started, when it is finished and which is the highest peak reached from the temperature
 - Events memory with the possibility of checking from the display, defrostings, door openings, condenser dirty, etc.
 - Pt1000 sensors for a better accuracy of the temperature control
 - NO/NC contact
 - RS 485
- **Temperature chart recorder** : the temperature chart recorder traces on circular paper-charts (125 mm Ø) the temperature of the refrigerator with the range -10°C / +40°C, with weekly recording. The temperature chart recorder is provided with a transparent perspex cover to allow immediate control of the charts and it is fitted with key locking to avoid tampering. It works with a 1,5V battery (AA size) in order to record even during power failure periods. Supplied with the recorder there are 100 paper-charts (suitable for almost 2 years recordings) and 1 ink tip
- **Cooling unit** : top mounted, with the condensing unit compounded by Nr 1 hermetic compressors and Nr 1 finned condenser, air cooled through a fan. Also, in the ceiling of the storage chamber, is mounted the finned evaporator with copper pipes, that is housed into a plastic cover that incorporate the fan. All the mounted components are industrial grade to grant the maximum reliability
- **Refrigerant** : R404a CFC-free

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- **Defrosting** : completely automatic, thermostat controlled. The condensate water is automatically channelled into a tray, with manual emptying, located under the cabinet
- **Refrigeration** : forced-air, through a fan, granting the maximum temperature uniformity and stability inside of the cabinet
- **Temperature range** : infinitely adjustable between +2°C / +15°C
- **Voltage (V/ph/Hz)** : 220-230/1/50
- **Plug** : Schuko type
- **Breakers** : Nr 2 glass cartridge fuses with a rating of 10A, at protection of the appliance
- **Noise level (dB(A))** : ≤ 50
- **Gross capacity (litres)** : 470
- **Net capacity (litres)** : 440
- **Dimensions (W x D x H cm)** : 60 x 70 x 192
- **Net weight (Kg)** : 140
- **Packed dimensions (W x D x H cm)** : 65 x 76 x 202 (1,00 m³)
- **Gross weight (Kg)** : 170

ACCESSORIES AVAILABLE:

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|--|-----------------------------|----------------------------------|
| – Plastic partition for drawer | – Front top for drawer | – Kit of castors |
| – Tray for the automatic evaporation of the condensate water | – Safety door lock with key | – Electronic temperature printer |
| – Cable port with cover | – Different voltage | – Wooden crate packing |



* The declared performances are referred at +35°C ambient temperature, relative humidity of 70% and without any internal thermal mass (empty cabinet).

* Should it be necessary or useful without undermining any model essential features, technical and stylistic characteristics are subject to be changed without manufacturer's previous notice.

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