Blood Bank Refrigerators
B Medical Systems | B Range

Blood Bank Refrigerators are devices intended for the safe storage of whole blood and blood components at temperatures ranging from +2°C to +6°C.

Compliant to DIN 58371 | ÖNORM K 2030 | Medical Device Class IIa according to MDD 93/42/EEC

9 MODELS
+4°C TEMPERATURE
31 > 750 BLOOD BAGS (350ml)

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

Blood Management Solutions
The Safety Standards developed by B Medical Systems define certain significant technical features of a product. These ensure the safe storage of the preparations as well as setting the highest standards of safety for the user.
Blood Bank Refrigerators
B Medical Systems | B Range

In conformity with national and international guidelines, regulations for Medical Devices offering reliability, efficiency and safety at an optimal price.

- Integrated multi-function monitoring electronics
  Integrated B Medical Systems multi-function electronics; with easy access in the door level; offers alarms, central alarm system, set point security, battery backup, full display and many other control features; compatible with °B Connected monitored solution for data monitoring and recording.

- Exclusive integrated electronics handle bar
  All functionalities are easily accessible:
  - Digital control with full functionalities - New B Medical Systems 7” full touchscreen display integrated at optimal level in the door handle with pre-installed connection allowing exclusive °B Connected monitoring functionalities
  - Open/close - Heavy duty door lock mechanism

- Lifetime warranty corrosion-free cabinet
  - One piece material cabinet with a lifetime warranty for zero corrosion, highest quality polypropylene for better insulation and no sharp edges to provide easier maintenance and cleaning
  - Smart ergonomy - Easier and safer handling because of heavier components placed at the bottom

- High quality materials
  New high quality coating, certified medical devices quality and antibacterial; high quality steel for better longevity and easy hygiene control.

- Versatile modularity
  Excellent storage capacity and modularity - Large choice of shelves and drawers offering modularity for every need.

- Highest insulation value (organic glass door)
  4-layer (Precision Line) and 5-layer (Premium Line) PMMA organic glass offering highest insulation, combined with reduced weight reducing efforts to close door and constraints on hinges, offering better longevity.

Subject to change without prior notice. Some of the accessories shown in the pictures are optional.
## Technical Data

### General features

<table>
<thead>
<tr>
<th>Model</th>
<th>Gross / Net volume (l)</th>
<th>Storage capacity (blood bags)</th>
<th>Set temperature (preset)</th>
<th>Temperature cold / warm alarm limit</th>
<th>Hold over time</th>
<th>Climate class (ambient temperature range)</th>
<th>Defrosting technique</th>
<th>Refrigerant type</th>
<th>External dimensions H x W x D (mm)</th>
<th>Inner dimensions H x W x D (mm)</th>
<th>Net weight with standard equipment (kg)</th>
<th>Energy Saver</th>
</tr>
</thead>
<tbody>
<tr>
<td>B51</td>
<td>52 / 45</td>
<td>24 (450ml) / 31 (350ml)</td>
<td>+4°C</td>
<td>+2°C / -6°C</td>
<td>2.5h (+4°C to +10°C)</td>
<td>SN (+10°C to +32°C)</td>
<td>Natural</td>
<td>R600a</td>
<td>670 x 495 x 575</td>
<td>470 x 375 x 350</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>B131</td>
<td>121 / 106</td>
<td>51 (450ml) / 79 (350ml)</td>
<td></td>
<td></td>
<td>2.2h (+4°C to +10°C)</td>
<td></td>
<td></td>
<td>Manual (for freezer)</td>
<td>830 x 595 x 695</td>
<td>630 x 475 x 470</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>B291</td>
<td>297 / 269</td>
<td>159 (450ml) / 235 (350ml)</td>
<td></td>
<td></td>
<td>1.9h (+4°C to +10°C)</td>
<td></td>
<td></td>
<td>R290</td>
<td>1670 x 595 x 695</td>
<td>1470 x 475 x 470</td>
<td>98</td>
<td></td>
</tr>
<tr>
<td>B381</td>
<td>362 / 329</td>
<td>213 (450ml) / 313 (350ml)</td>
<td></td>
<td></td>
<td>2.7h (+4°C to +10°C)</td>
<td></td>
<td></td>
<td></td>
<td>1980 x 595 x 695</td>
<td>1790 x 475 x 470</td>
<td>111</td>
<td></td>
</tr>
<tr>
<td>BF261</td>
<td>F I 121 / 106</td>
<td>64 (plasma bags at 450ml) / 104 (plasma bags at 350ml)</td>
<td>-32°C</td>
<td>-37°C / -27°C</td>
<td>0.7h (-32°C to -23°C)</td>
<td></td>
<td></td>
<td></td>
<td>1650 x 595 x 695</td>
<td>630 x 475 x 470</td>
<td>118</td>
<td></td>
</tr>
</tbody>
</table>

All values were measured at +25°C ambient temperature and without load (with inertial mass). Hold over time measured at +20°C ambient temperature (acc. to DIN 58371). Subject to change without prior notice. Some of the accessories shown in the pictures are optional.

The figures are approximate, and may vary based on the number of bags that are actually stored and the different bag manufacturers’ specifications available on the market, the actual bag sizes as well as the individual user’s practice of loading.
### Technical Data

#### General features

<table>
<thead>
<tr>
<th>Model</th>
<th>B401</th>
<th>B501</th>
<th>B701</th>
<th>B901</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross / Net volume (l)</td>
<td>451 / 384</td>
<td>598 / 510</td>
<td>747 / 636</td>
<td>895 / 763</td>
</tr>
<tr>
<td>Storage capacity (blood bags)</td>
<td>270 (450ml)</td>
<td>360 (450ml)</td>
<td>450 (450ml)</td>
<td>540 (450ml)</td>
</tr>
<tr>
<td>Gross / Net volume (l)</td>
<td>375 (350ml)</td>
<td>500 (350ml)</td>
<td>625 (350ml)</td>
<td>750 (350ml)</td>
</tr>
<tr>
<td>Gross / Net volume (l)</td>
<td>270 (450ml)</td>
<td>360 (450ml)</td>
<td>450 (450ml)</td>
<td>540 (450ml)</td>
</tr>
<tr>
<td>Gross / Net volume (l)</td>
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<td>750 (350ml)</td>
</tr>
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<td>360 (450ml)</td>
<td>450 (450ml)</td>
<td>540 (450ml)</td>
</tr>
<tr>
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<td>375 (350ml)</td>
<td>500 (350ml)</td>
<td>625 (350ml)</td>
<td>750 (350ml)</td>
</tr>
</tbody>
</table>

#### Set temperature (preset)

- +4°C

#### Temperature cold / warm alarm limit

- +2°C / +6°C

#### Hold over time

- 2.5 h (+4°C to +10°C)
- 2.8 h (+4°C to +10°C)
- 2.8 h (+4°C to +10°C)
- 2.7 h (+4°C to +10°C)

#### Climate class (ambient temperature range)

- SN / T (+10°C to +43°C)

#### Defrosting technique

- Natural

#### Refrigerant type

- R600a

#### External dimensions H x W x D (mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>B401</th>
<th>B501</th>
<th>B701</th>
<th>B901</th>
</tr>
</thead>
<tbody>
<tr>
<td>1988 x 699 x 1039</td>
<td>1988 x 845 x 1039</td>
<td>1988 x 992 x 1039</td>
<td>1988 x 1139 x 1039</td>
<td></td>
</tr>
</tbody>
</table>

#### Inner dimensions H x W x D (mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>B401</th>
<th>B501</th>
<th>B701</th>
<th>B901</th>
</tr>
</thead>
<tbody>
<tr>
<td>1167 x 447 x 713</td>
<td>1167 x 590 x 713</td>
<td>1167 x 740 x 713</td>
<td>1167 x 887 x 713</td>
<td></td>
</tr>
</tbody>
</table>

#### Net weight with standard equipment (kg)

<table>
<thead>
<tr>
<th>Model</th>
<th>B401</th>
<th>B501</th>
<th>B701</th>
<th>B901</th>
</tr>
</thead>
<tbody>
<tr>
<td>206</td>
<td>228</td>
<td>251</td>
<td>273</td>
<td>273</td>
</tr>
</tbody>
</table>

#### Energy Saver

| Frequency (Hz) | 50 / 60 | 60 | 50 / 60 | 60 | 50 / 60 | 60 | 50 / 60 | 60 |
| Power (W) | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| Energy consumption (kWh/24h) | 1.50 / 1.50 | 1.40 | 1.50 / 1.50 | 1.40 | 1.50 / 1.60 | 1.40 | 1.60 / 1.70 | 1.40 |
| Heat emission (Kcal/h) | 36 | 30 | 35 | 35 | 36 | 35 | 41 | 36 |
| Compressor running time (%) | 27 | 25 | 26 | 29 | 27 | 29 | 29 | 30 |
| Noise level (dB(A)) | 46 / 49 | 52 | 47 / 51 | 50 | 50 / 51 | 46 | 47 / 47 | 46 |

*All values were measured at +25°C ambient temperature and without load (with inertial mass). Hold over time measured at +20°C ambient temperature (acc. to DIN 58371). Subject to change without prior notice. Some of the accessories shown in the pictures are optional. The figures are approximate, and may vary based on the number of bags that are actually stored and the different bag manufacturers’ specifications available on the market, the actual bag sizes as well as the individual user’s practice of loading.*
## Technical Data Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Regulation sensor Precision (from -80°C to +180°C) ± 0.3°C</th>
<th>Display sensor Precision (from -80°C to +180°C) ± 0.3°C in reference body / 100 ml DOW corning 200-5CST (Silicon Oil)</th>
<th>Accu data / function time of the control panel when system failure</th>
<th>Relative humidity at +32°C</th>
<th>Door insulation (polyurethane)</th>
<th>Casing insulation (polyurethane)</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS1-131 &amp; BF261</td>
<td>NTC</td>
<td>NTC</td>
<td>12 V - 2.3 AH / 48h</td>
<td>≤ 75%</td>
<td>82 mm PU with 4-Layer PMMA organic glass</td>
<td>60-65 mm PU</td>
<td>Inner body Polypropylene (copolymer UV) Outer body Polypropylene (copolymer UV) Inner door Polypropylene (copolymer UV) Aluminium Outer door Polypropylene (copolymer UV) Drawer Polycarbonate, transparent Shelf -</td>
</tr>
<tr>
<td>B291-381</td>
<td>NTC</td>
<td>NTC</td>
<td>12 V - 7 AH / 48h</td>
<td></td>
<td>65-82 mm PU with 5-Layer PMMA organic glass</td>
<td>77-82 mm PU</td>
<td>Stainless steel (1.4301) DX51D + Z100 coated Stainless steel (1.4301) DX51D + Z100 coated Stainless steel (1.4301) Stainless steel (1.4301) Wire DIN177, PA11 coated</td>
</tr>
<tr>
<td>B401-501-701-901</td>
<td>NTC</td>
<td>PT1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Door insulation (polyurethane)**: 82 mm PU with 4-Layer PMMA organic glass
- **Casing insulation (polyurethane)**: 60-65 mm PU
- **Material**:
  - **Inner body**: Polypropylene (copolymer UV)
  - **Outer body**: Polypropylene (copolymer UV)
  - **Inner door**: Polypropylene (copolymer UV) Aluminium
  - **Outer door**: Polypropylene (copolymer UV)
  - **Drawer**: Polycarbonate, transparent
  - **Shelf**: -

- **European Medical Device Directive**: 93 / 42 / EEC, Class IIa (models: 220-240 V - 50/60 Hz)
- **EMC directive**: 2014 / 30 / EU (models: 220-240 V - 50/60 Hz)
- **Low voltage directive**: 2014 / 35 / EU (models: 220-240 V - 50/60 Hz)
- **FDA regulation**: Class II medical devices acc. to 21CFR Part 864.9700 (models: 115-127 V - 60 Hz)
- **cCSAus certificate**: Yes (models: 115-127 V - 60 Hz)
- **GMP - Clean room classification**: Class ISO 6 / EC GMP B

Subject to change without prior notice. Some of the accessories shown in the pictures are optional.
# Equipment

## General

<table>
<thead>
<tr>
<th>B Medical Systems</th>
<th>Digital display</th>
<th>B51</th>
<th>B131</th>
<th>B291</th>
<th>B381</th>
<th>BF261</th>
<th>B401</th>
<th>B501</th>
<th>B701</th>
<th>B901</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronics</td>
<td>7&quot; full touchscreen display</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Ergonomic handle</td>
<td>open/close - heavy duty door lock mechanism</td>
<td>-</td>
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<tr>
<td>Internal LED lighting</td>
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<tr>
<td>&quot;B Connected - Monitoring Software</td>
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<tr>
<td>DCU - Data Communication Unit (in combination with &quot;B Connected)</td>
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<tr>
<td>Ethernet interface</td>
<td></td>
<td>-</td>
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<tr>
<td>Temperature chart recorder</td>
<td>pre mounted (in the form of a circular chart recorder)</td>
<td>-</td>
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<tr>
<td>Ambient temperature sensor</td>
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<tr>
<td>Potential-free alarm contact</td>
<td>in case of system failure</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Integrated port for external sensor (installed by customer)</td>
<td></td>
<td>-</td>
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</tbody>
</table>

| Rollers | | -   | -    | -    | -    | -     | -    | -    | -    | -    |
| Smooth castors with stabilizers | | -   | -    | -    | -    | -     | -    | -    | -    | -    |
| Door hinge Right | Left | | -   | -    | -    | -    | -     | -    | -    | -    |

Subject to change without prior notice.
### Equipment

#### Internal storage

<table>
<thead>
<tr>
<th>Standard</th>
<th>B51</th>
<th>B131</th>
<th>B291</th>
<th>B381</th>
<th>BF261</th>
<th>B401</th>
<th>B501</th>
<th>B701</th>
<th>B901</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawer with Front Cover</td>
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<td>5</td>
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<tr>
<td>Drawer without Front Cover</td>
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<tr>
<td>Bottom Drawer</td>
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<tr>
<td>Wire Shelf</td>
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<tr>
<td>ST-Drawer with Front Cover</td>
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<tr>
<td>Optional</td>
<td>ST-Drawer without Front Cover</td>
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<tr>
<td>Accessories</td>
<td>Dividers Set (H 100 mm)</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>to facilitate the handling and storage management</td>
<td></td>
<td>1</td>
<td>6</td>
<td>3</td>
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<tr>
<td>S-Rack (H 100 x W 113 x D 638 mm)</td>
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<tr>
<td>with Wire Shelf</td>
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<tr>
<td>with ST-Drawer</td>
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<tr>
<td>with ST-Shelf</td>
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</tbody>
</table>

Subject to change without prior notice.

- Standard
- Optional
- Not available

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY
**Full functionalities at a glance**

**B Medical Systems | Electronics**

**PRECISION LINE** | Multifunctional electronics with digital display and easy access, in the door handle; compatible with °B Connected monitored solution.

- **Key power switch**
  - 0 = OFF / I = ON
  - To switch the unit on, turn the key switch to position „I“. The green power LED lights up.
  - After the self-check, the temperature inside the device is displayed.

- **Digital display**
  - During normal operation the display shows:
    - Left-hand side: current time and internal temperature displayed in °C (Celsius) or °F (Fahrenheit) in increments of 0.1.
    - Right-hand side: the maximum and minimum inside temperature.

- **Function buttons**
  - UP / DOWN buttons: navigation within the parameters and modification of their values.
  - ENTER button: use the ENTER-key to confirm the actual selection. This applies the parameter value. The change of a parameter only becomes effective when confirmed.
  - MUTE / BACK button: in case of an alarm, the acoustic alarm can be muted for a specified time. In Parameter-mode the same key acts a “BACK-button” to go one step back.
  - LIGHT button: allows to switch on or off the interior light of the device without opening the door.

- **Acoustic and visual alarm signal**
  - When an alarm occurs, the red alarm LED lights up and an acoustic signal sounds. The corresponding alarm message appears on the display alternately with the measured inside temperature. If several alarms occur simultaneously, the messages will be shown alternately.

- **USB-port**
  - A USB port is available for data export only. Measured values of the display sensor are stored for at least 30 days (ring buffer) together with a time stamp.

Subject to change without prior notice.
The new B Medical Systems Electronics offers a wide range of adjustment and diagnostic facilities as well as additional protection / warning operations (via external alarm operations, histories and individual display signals).

**PREMIUM LINE** | Multi-function electronics with 7” full touchscreen display, integrated at optimal level in the door handle with pre-installed connection allowing exclusive “B Connected monitoring functionalities.

- **Power switch**
  - OFF / ON
  - To switch on press the ON/OFF button for 1 second. The green LED will light up
  - Switch off protected by password. The door will automatically unlock before powering down

- **Touchscreen 7” full display**
  - During normal operation the display shows:
    - At the top: current voltage, current time, and login status (user level)
    - Left-hand side: temperature of the regulation sensor (displaying this temperature can be disabled through the settings) and internal temperature displayed in °C (Celsius) or °F (Fahrenheit) in increments of 0.1°
    - Right-hand side: touch buttons to access door unlock, clean, menu, alarm mute and message functions

- **Acoustic and visual alarm signal**
  - When an alarm occurs, the red alarm LED lights up and an acoustic signal sounds. The corresponding alarm message appears on the display together with the measured inside temperature. If several alarms occur simultaneously, the messages will be shown alternately.

- **Keycard reader**
  - Login / Unlock using a NFC card

- **Touch buttons**
  - DOOR UNLOCK button: unlocks the door of the device
  - CLEAN button: the cleaning button allows the user to disable the touch capability of the screen for a short period of time in order to clean the screen. This button is replaced by the logout button when any user is logged in
  - MENU button: allows access to the menu screen
  - ALARM MUTE button: deactivates the acoustic alarm for a predefined period of time
  - MESSAGE button: during a warning or alarm situation, the color of this button and the corresponding level will change. Information on an active alarm and warning is accessible by pressing the message button

Subject to change without prior notice.
Optimum control and protection

B Medical Systems | °B Connected & DCU

°B CONNECTED | MONITORING SOFTWARE

Universal software for the monitoring of refrigeration devices, including the acquisition, recording and visualization of temperature data.

- Unique monitoring software for the full range of Blood Management Solutions and Medical Refrigeration products
- Web-based interfaces for computers and mobile devices
- Modern design for simple and intuitive use
- Optimized design for mobile and touch compatible devices
- Support of multiple languages
- Real time data: Current temperatures, set point, upper and lower limit, door state, compressor runtime
- Log data: Events, alarms within date/time, event type, description of the event
- Event and alarm confirmation function
- Batch management: Read in of plasma bags with a barcode scanner
- Movement state and door control of Agitator devices
- Parameter settings of each device: Factory settings, real time clock, language, firmware version, RS485 address, IP address

KEY BENEFITS:

- Unique interface for the monitoring of the full range of refrigeration devices
- Centralized database providing data access to entire customer network

Subject to change without prior notice.
°B Connected & DCU offer a highly flexible system that is adaptable to specific customer requirements

> Complete & legally safe documentation of temperature data
> Comprehensive applications and diagnostic possibilities

Hardware module monitoring all operating conditions and passing them through to a central database – via local network.

- Interface connection of B Medical Systems appliances to an existing network
- Graphical user interface displaying temperature and configuring devices and alarms easily
- Direct connection to Ethernet and serial bus RS485
- Digital in/out (programmable and customer-specific use)
- Recording and storing appliance relevant data
- Integrated USB port allowing to export stored data
- The DCU combined with the °B Connected software replaces the paper temperature recorder
- All data are recorded and save in the internal storage of the DCU and backed up in °B Connected data base if connected
- Several additional self-sufficient temperature sensors (up to 4 PT1000) may be connected
- Humidity sensor input (4-20 mA)

**KEY BENEFITS:**

- Central system collecting relevant temperature data of the appliances and their respective operating conditions
- A number of connection facilities allowing flexible upgrades for individual projects
B Medical Systems has more than 35 years’ experience in the medical refrigeration sector.

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

B Medical Systems (formerly Dometic Medical Systems) was founded in 1979 when the World Health Organization approached Electrolux in Vianden, Luxembourg, to create a solution for the safe storage and transport of vaccines around the world. In 2001, Electrolux Medical Systems became part of the Dometic Group, and was renamed Dometic Medical Systems. Having established a legitimate reputation in the medical equipment industry, the company has also become a global leader in vaccine cold chain.

Since 2019 B Medical Systems has been committed to the UN Global Compact corporate responsibility initiative and its principles in the areas of human rights, labour, the environment and anti-corruption.

Our Global Expertise

We strive to provide you with the highest standards of service; not only through our selected distributors and partners for all your maintenance and service but also our second line trouble shooting and after sales service. This factory based group of engineers is there to help our partners and yourself to get the best solution for your cold storage needs.

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