Pharmacy Refrigerators

B Medical Systems | P Range

Pharmacy Refrigerators are devices intended for the safe storage of pharmaceuticals, e.g. medications or live virus vaccines, at cold temperatures between +4°C and +15°C.

Compliant to DIN 13221 | DIN 58345 | ÖNORM K 2040
Medical Device according to MDR (EU) 2017/745, Class I or 21CFR Part 862.2050, Class I

9 MODELS
+5°C TEMPERATURE
52 L > 895 L VOLUME
SN SN/T CLIMATE CLASS
MEDICAL DEVICE (EU) 2017/745
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.
Pharmacy Refrigerators
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In conformity with national and international guidelines, regulations for Medical Devices offering reliability, efficiency and safety at an optimal price.

- Integrated multifunction monitoring electronics
  Integrated B Medical Systems multifunction 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 solution for data monitoring and recording.

- 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 storage capacity
  High storage per square meter in terms of net volume, with a very versatile inner volume utility due to multiple user friendly rails allowing modularity.

- Exclusive integrated electronics handle bar (Patent pending)
  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

- 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.

Pharmacy Refrigerators are devices intended for the safe storage of pharmaceuticals, e.g. medications or live virus vaccines, at cold temperatures between +4°C and +15°C with multiple controls and warning safety features developed as a result of 40 years of expertise in refrigeration technology.

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>Set temperature (preset)</th>
<th>Set temperature (setting range)</th>
<th>Preset 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>
</tr>
</thead>
<tbody>
<tr>
<td>P55</td>
<td>52 / 45</td>
<td>+5°C</td>
<td>+4°C to +15°C</td>
<td>+3°C / +7°C</td>
<td>1.3 h (+5°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>38</td>
</tr>
<tr>
<td>P130</td>
<td>121 / 106</td>
<td>+5°C</td>
<td>+4°C to +15°C</td>
<td>+3°C / +7°C</td>
<td>1.5 h (+5°C to +10°C)</td>
<td>SN (+10°C to +32°C)</td>
<td>Natural</td>
<td>R600a</td>
<td>830 x 595 x 695</td>
<td>630 x 475 x 470</td>
<td>60</td>
</tr>
<tr>
<td>P290</td>
<td>297 / 269</td>
<td>+5°C</td>
<td>+4°C to +15°C</td>
<td>+3°C / +7°C</td>
<td>1.0 h (+5°C to +10°C)</td>
<td>SN (+10°C to +32°C)</td>
<td>Natural</td>
<td>R600a</td>
<td>1670 x 595 x 695</td>
<td>1470 x 475 x 470</td>
<td>95</td>
</tr>
<tr>
<td>P380</td>
<td>362 / 329</td>
<td>+5°C</td>
<td>+4°C to +15°C</td>
<td>+3°C / +7°C</td>
<td>0.9 h (+5°C to +10°C)</td>
<td>SN (+10°C to +32°C)</td>
<td>Natural</td>
<td>R600a</td>
<td>1980 x 595 x 695</td>
<td>1790 x 475 x 470</td>
<td>109</td>
</tr>
<tr>
<td>PF260</td>
<td>R / 121 / 106</td>
<td>+5°C</td>
<td>+4°C to +15°C</td>
<td>+3°C / +7°C</td>
<td>1.5 h (+5°C to +10°C)</td>
<td>-32°C to -20°C</td>
<td>Manual</td>
<td>R290</td>
<td>1650 x 595 x 695</td>
<td>630 x 475 x 470</td>
<td>117</td>
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</table>

- **Supply voltage (V)**
  - 220-240
  - 115-127
  - 220-240
  - 115-127
  - 220-240
  - 115-127
  - 220-240
  - 115-127
  - 220-240
  - 115-127
- **Frequency (Hz)**
  - 50 / 60
  - 60
  - 50 / 60
  - 60
  - 50 / 60
  - 60
  - 50 / 60
  - 60
  - 50 / 60
  - 60
  - 50 / 60
  - 60
- **Power (W)**
  - 100
  - 200
  - 200
  - 200
  - 200
  - 200
  - 300
  - 360
- **Energy consumption (kWh/24h)**
  - 0.7 / 0.8
  - 0.8
  - 1.0 / 1.0
  - 0.9
  - 1.8 / 1.8
  - 1.9
  - 2.0 / 2.0
  - 2.0
  - 1.0 / 1.0
  - 0.9
  - 2.8 / 2.9
  - 3.1
- **Heat emission (Kcal/h)**
  - 25
  - 30
  - 20
  - 16
  - 68
  - 72
  - 72
  - 106
  - 111
- **Compressor running time (%)**
  - 31
  - 31
  - 24
  - 19
  - 35
  - 35
  - 32
  - 24
  - 19
  - 51
  - 50
- **Noise level (dB(A))**
  - 35 / 36
  - 37
  - 35 / 36
  - 38
  - 38 / 40
  - 39
  - 40
  - 38
  - 35 / 36
  - 38
  - 45 / 47
  - 47

All values were measured at +25°C ambient temperature and without load. Subject to change without prior notice. Some of the accessories shown in the pictures are optional.
## Technical Data
### General features

<table>
<thead>
<tr>
<th></th>
<th>P400</th>
<th>P500</th>
<th>P700</th>
<th>P900</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>Set temperature (preset)</td>
<td>+5°C</td>
<td>+5°C</td>
<td>+5°C</td>
<td>+5°C</td>
</tr>
<tr>
<td>Set temperature (setting range)</td>
<td>+4°C to +15°C</td>
<td>+4°C to +15°C</td>
<td>+4°C to +15°C</td>
<td>+4°C to +15°C</td>
</tr>
<tr>
<td>Preset cold / warm alarm limit</td>
<td>+3°C / +7°C</td>
<td>+3°C / +7°C</td>
<td>+3°C / +7°C</td>
<td>+3°C / +7°C</td>
</tr>
<tr>
<td>Hold over time</td>
<td>1.3 h (+5°C to +10°C)</td>
<td>1.3 h (+5°C to +10°C)</td>
<td>1.3 h (+5°C to +10°C)</td>
<td>1.3 h (+5°C to +10°C)</td>
</tr>
<tr>
<td>Climate class (ambient temperature range)</td>
<td>SN / T (+10°C to +43°C)</td>
<td>SN / T (+10°C to +43°C)</td>
<td>SN / T (+10°C to +43°C)</td>
<td>SN / T (+10°C to +43°C)</td>
</tr>
<tr>
<td>Defrosting technique</td>
<td>Natural</td>
<td>Natural</td>
<td>Natural</td>
<td>Natural</td>
</tr>
<tr>
<td>Refrigerant type</td>
<td>R600a</td>
<td>R600a</td>
<td>R600a</td>
<td>R600a</td>
</tr>
<tr>
<td>External dimensions H x W x D (mm)</td>
<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>
</tr>
<tr>
<td>Inner dimensions H x W x D (mm)</td>
<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>
</tr>
<tr>
<td>Net weight with standard equipment (kg)</td>
<td>206</td>
<td>228</td>
<td>251</td>
<td>273</td>
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</table>

### Energy Saver

<table>
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<tr>
<th></th>
<th>P400</th>
<th>P500</th>
<th>P700</th>
<th>P900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency (Hz)</td>
<td>50 / 60</td>
<td>60</td>
<td>50 / 60</td>
<td>60</td>
</tr>
<tr>
<td>Power (W)</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Energy consumption (kWh/24h)</td>
<td>1.50 / 1.40</td>
<td>1.40</td>
<td>1.50 / 1.50</td>
<td>1.40</td>
</tr>
<tr>
<td>Heat emission (Kcal/h)</td>
<td>33</td>
<td>30</td>
<td>36</td>
<td>30</td>
</tr>
<tr>
<td>Compressor running time (%)</td>
<td>25</td>
<td>25</td>
<td>27</td>
<td>25</td>
</tr>
<tr>
<td>Noise level (dB(A))</td>
<td>46 / 49</td>
<td>52</td>
<td>47 / 51</td>
<td>50</td>
</tr>
</tbody>
</table>

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### Technical Data

#### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Regulation sensor</th>
<th>Display sensor</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>Cabinet insulation (polyurethane)</th>
<th>Material</th>
<th>European Medical Device Regulation</th>
<th>EMC directive</th>
<th>Low voltage directive</th>
<th>FDA regulation</th>
<th>cCSAus certificate</th>
<th>GMP - Clean room classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>P55-130 &amp; PF260</td>
<td>NTC, at 0°C ± 0.3°C</td>
<td>NTC, at 0°C ± 0.3°C</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>Polypropylene (copolymer UV)</td>
<td>MDR (EU) 2017/745, Class I (models: 220-240 V - 50/60 Hz)</td>
<td>2014 / 30 / EU (models: 220-240 V - 50/60 Hz)</td>
<td>2014 / 35 / EU (models: 230-240 V - 50/60 Hz)</td>
<td>21 CFR Part 862.2050, Class I (models: 115-127 V - 60 Hz)</td>
<td>Yes (models: 115-127 V - 60 Hz)</td>
<td>Class ISO 6 / EC GMP B</td>
</tr>
<tr>
<td>P290-380</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>65-82 mm PU with 5-Layer PMMA organic glass</td>
<td>Stainless steel (1.4301)</td>
<td></td>
<td></td>
<td></td>
<td>21 CFR Part 862.2050, Class I (models: 115-127 V - 60 Hz)</td>
<td>Yes (models: 115-127 V - 60 Hz)</td>
<td>Class ISO 5 / EC GMP A</td>
</tr>
<tr>
<td>P400-500-700-900</td>
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<td></td>
<td></td>
<td>77-82 mm PU</td>
<td>Stainless steel (1.4301)</td>
<td></td>
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<td></td>
<td>21 CFR Part 862.2050, Class I (models: 115-127 V - 60 Hz)</td>
<td>Yes (models: 115-127 V - 60 Hz)</td>
<td>Class ISO 5 / EC GMP A</td>
</tr>
</tbody>
</table>

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## Equipment

### General

<table>
<thead>
<tr>
<th>Feature</th>
<th>P55</th>
<th>P130</th>
<th>P290</th>
<th>P380</th>
<th>PF260</th>
<th>P400</th>
<th>P500</th>
<th>P700</th>
<th>P900</th>
</tr>
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<tbody>
<tr>
<td><strong>B Medical Systems</strong></td>
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<tr>
<td>Digital display</td>
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<tr>
<td><strong>Ergonomic handle</strong></td>
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<tr>
<td>open/close - heavy duty door lock mechanism</td>
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<td>-</td>
<td>●</td>
<td>●</td>
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<tr>
<td><strong>Organic glass door</strong></td>
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<tr>
<td>for quick check / pre-selection of the</td>
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<tr>
<td>refrigerator's content</td>
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<tr>
<td><strong>Internal LED lighting</strong></td>
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<tr>
<td><strong>°B Connected - Monitoring Software</strong></td>
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<tr>
<td><strong>DCU - Data Communication Unit</strong></td>
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<td>(in combination with °B Connected)</td>
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<td><strong>Ethernet interface</strong></td>
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<td><strong>Temperature chart recorder</strong></td>
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<td>pre mounted (in the form of a circular chart</td>
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<td><strong>Potential-free alarm contact</strong></td>
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<td><strong>Integrated port for external sensor</strong></td>
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<tr>
<td><strong>Smooth castors with stabilizers</strong></td>
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<tr>
<td><strong>Door hinge Right / Left</strong></td>
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- Standard
- Optional
- Not available

Subject to change without prior notice.
# Equipment Internal storage

<table>
<thead>
<tr>
<th></th>
<th>P55</th>
<th>P130</th>
<th>P290</th>
<th>P380</th>
<th>PF260</th>
<th>P400</th>
<th>P500</th>
<th>P700</th>
<th>P900</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Drawer with Front Cover</strong></td>
<td>○ 1</td>
<td>○ 1</td>
<td>○ ≤ 5</td>
<td>○ ≤ 6</td>
<td>○ 2</td>
<td>○ 1</td>
<td>-</td>
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<tr>
<td><strong>Drawer without Front Cover</strong></td>
<td>○ ≤ 3</td>
<td>○ ≤ 3</td>
<td>○ ≤ 12</td>
<td>○ ≤ 15</td>
<td>○ ≤ 3</td>
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<tr>
<td><strong>Bottom Drawer</strong></td>
<td>○ 1</td>
<td>○ 1</td>
<td>○ 1</td>
<td>○ 1</td>
<td>○ 2</td>
<td>○ 2</td>
<td>○ 2</td>
<td>○ 2</td>
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<td><strong>Wire Shelf</strong></td>
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<td>○ 7</td>
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<td>○ 2</td>
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<td><strong>ST-Drawer with Front Cover</strong></td>
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<tr>
<td><strong>ST-Drawer without Front Cover</strong></td>
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<tr>
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<tr>
<td><strong>Dividers Set (H 35 mm or H 100 mm)</strong></td>
<td>○ 1</td>
<td>○ 1</td>
<td>○ ≤ 5</td>
<td>○ ≤ 6</td>
<td>○ ≤ 3</td>
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<tr>
<td><strong>S-Rack (H 100 x W 113 x D 638 mm)</strong></td>
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<tr>
<td><strong>ST-Rack (H 95 x W 134 x D 648 mm)</strong></td>
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Subject to change without prior notice.

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**S-RACK**

ST-RACK (STAINLESS STEEL)

ST-DRAWER (STAINLESS STEEL)

Available with or without Front Cover

### Available for Drawer with Front Cover

DIVIDERS SET

DRAINER

Available with or without Front Cover

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

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

- **Key power switch**
  
  $O = OFF / I = ON$

  - 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

- **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 with the inside measured temperature. If several alarms occur simultaneously, the messages will be shown alternately.

- **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 to 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 as “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

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

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**Power switch**
- 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 inside measured temperature. If several alarms occur simultaneously, the messages will be shown alternately.

**Keycard reader**
Login / Unlock using an 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 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
- ACTIVE ALARMS AND WARNINGS 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

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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
- Graphic display of temperature curves
- Integrated event and activity history of appliances’ components
- Data recording on centralized database for long-term archiving
- Easy setting of specific alarm, via email or SMS alerts
- Generation of reports compiling crucial data and activities
- Temperature and detailed device data export for third-party software
- Important cost advantage compared to a traditional circular chart recorder and its spare parts
- REST API to access raw data directly from the database in read-only mode

KEY BENEFITS:

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

1 CONFIGURATION

- Password login
- Access right

2 DISPLAYING

- 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
- Parameter settings of each device: Factory settings, real-time clock, language, firmware version, RS485 address, IP address

Subject to change without prior notice.
DCU | DATA COMMUNICATION UNIT (PRECISION LINE)

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 archived data
- The DCU combined with the °B Connected software replaces the paper temperature recorder
- All data are recorded and saved in the internal storage of the DCU and backed up in °B Connected database 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 abilities allowing flexible upgrades for individual projects

°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 functionalities

Subject to change without prior notice.

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY
SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

B Medical Systems (formerly Dometic Medical Systems) has more than 40 years’ experience in the medical refrigeration sector.

The company, formerly known as Electrolux 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.