



medical
systems

SAVING LIVES
THROUGH RELIABLE
AND INNOVATIVE
TECHNOLOGY

Blood Management Solutions





Blood Management Solutions

For a reliable cold chain within the scope of safety of blood transfusion specifications.

Saving lives through reliable and innovative technology

UNDERSTANDING THE NEEDS OF MEDICAL PROFESSIONALS REQUIRES A CONSTANT DIALOGUE.

The medical challenges our partners and clients face on the ground can be overwhelming. By continuously engaging with them and gathering insights through dialogue and exchange, we are able to understand their evolving needs. As a key global player in the sector of medical technology, B Medical Systems is committed to delivering highly specialized and cutting-edge devices that always exceed expectations.

DESIGNING RELIABLE MEDICAL DEVICES IS AT THE HEART OF OUR INNOVATION PROCESS.

We feel deeply connected to the international community of healthcare professionals and use optimized industrial processes to offer reliable products and services that help develop a relationship of trust. By managing the design, manufacturing, distribution and after-sales elements, we adopt a lifecycle approach and can ensure the Total Cost of Ownership of our products is as low as possible.

PUTTING PEOPLE FIRST STARTS WITHIN OUR ORGANIZATION.

We take a customer-oriented approach in everything we do, and are guided by our values and high standards. Our team of highly skilled professionals share our desire to excel and stay ahead of the game in the field of technological innovation. As an organization, our core aim is to save lives through reliable and innovative technology.

SAFE GLOBAL BLOOD MANAGEMENT: FROM COLLECTION TO TRANSFUSION, TRANSPORTATION, PROCESSING AND STORAGE.

B Medical Systems is a renowned expert in blood safety and management. Our reliable blood cold chain strictly observes international standards and World Health Organization recommended specifications. We keep blood safe through temperature-controlled transportation, processing and storage solutions. Additionally B Medical Systems offers innovative solutions for blood and derivatives treatment. These include a new Contact Shock Freezer that delivers optimized performance with its innovative system (patent pending) – it enables faster and more homogenous freezing that saves time and money – and an exclusive integrated Incubator and Platelet Agitator with autonomous motioned trays, each with their own door, which ensures better stability and preservation of product quality, and consequently production gains.



SUMMARY

- 04-05** **B Medical Systems Safety Standards**
For technical reliability and environmental friendliness
- 06** **European Medical Device Directive 93/42/EEC**
For increased reliability to comply with European essential requirements
- 07** **Blood Traceability**
RFID technology for a complete traceability and identification of RBCC
- 08-18** **Blood Management Chain**
A selected range of products for an uninterrupted and precise temperature controlled blood cold chain
- 19** **°B Connected & DCU Software**
For optimum control and protection of your preparations

A complete line for a reliable blood management chain

Blood Management Solutions

Platelet Agitators

PA RANGE



	PA 30	PA 40	PA 50	PA 60	PA 70	PA 80	PA 90	PA 100	PA 110	PA 120	PA 130	PA 140
Storage capacity (500ml bags)	30	40	50	60	70	80	90	100	110	120	130	140

Blood Bank Refrigerators

B RANGE (DIN 58371 & ÖNORM K 2030)



	B 55	B 130	B 290	B 400	B 500	B 700	B 900
Gross / Net volume (l)	52 / 45	121 / 106	297 / 269	451 / 384	598 / 510	747 / 636	895 / 763
Storage capacity (blood bags)	24 (450ml) / 32 (350ml)	51 (450ml) / 69 (350ml)	171 (450ml) / 231 (350ml)	255 (450ml) / 345 (350ml)	340 (450ml) / 460 (350ml)	425 (450ml) / 575 (350ml)	510 (450ml) / 690 (350ml)

Contact Shock Freezers

CSF RANGE



	CSF 60	CSF 100
Freezing capacity (plasma bags)	20 (1000ml) / 60 (350ml)	32 (1000ml) / 96 (350ml)

Plasma Storage Freezers

F RANGE (DIN 58375)



	F 401	F 501	F 701	F 901
Gross / Net volume (l)	451 / 384	598 / 510	747 / 636	895 / 763
Storage capacity (plasma bags)	345 (350ml)	460 (350ml)	575 (350ml)	690 (350ml)

Distribution Freezers

U RANGE



	U 401	U 501	U 701	U 901
Gross / Net volume (l)	451 / 434	598 / 577	747 / 720	895 / 863
Storage capacity (cryoboxes)	? (450ml) / ? (350ml)	? (450ml) / ? (350ml)	? (450ml) / ? (350ml)	? (450ml) / ? (350ml)

Transport Systems

MT RANGE (ADR / RID / IMDG / ICAO-TI / IATA-DGR)



	MT 2	MT 4	MT 8	MT 12	MT 25	MT 100
Gross volume (l)	2.2	8	20	24	44	90
Storage capacity (bags)	1 (450ml) / 2 (270ml)	4 (450ml) / 6 (270ml)	8 (450ml) / 14 (270ml)	15 (450ml) / 25 (270ml)	25 (450ml) / 40 (270ml)	48 (450ml)
Cooling system	Passive	Passive	Passive	Passive	Passive	Active (Compressor)

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

Safety Standards

B Medical Systems

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.

PRECISION LINE	PREMIUM LINE	PA RANGE	CSF RANGE	
●	●	●	●	B Medical Systems Electronics
●				B Medical Systems digital display
	●			B Medical Systems 4,3" digital color display with capacitive buttons
	○	●	●	B Medical Systems 7" full touchscreen display
●	●			Safety door lock (with 2 keys) and key-operated power switch ON/OFF (with 2 keys)
●	●	●	●	Power indicator light and digital temperature indicator (display: 0.1 digits)
●	●	●		Controlled fan cooling system for constant temperature and even temperature distribution across the entire refrigerating chamber <i>[not applicable for F/U ranges]</i>
●	●			Automatic switch-off when front door opens <i>[not applicable for U range]</i>
●	●	●	●	Self-contained alarm system with integrated battery takes over the alarm function and temperature value measurements in case of power failure for at least 48 hours
		●		Built-in rechargeable battery backup provides continuous movements and air circulation, in case of power failure
●	●	●	●	Acoustic and visual alarm signal in case of temperature alarm and power failure
●	●	●	●	The alarm history function on the electronic stores all the relevant values during a temperature alarm, such as: min., max. and average temperature & also the duration of the alarm
●	●	●	●	Remote transmission alarm signal (via potential-free contact) in case of temperature alarm (change-over contact)
●	●			Safety thermostat prevents dropping of the temperature below +2°C <i>[only for B range]</i>
●	●			Door opening alarm (visual / acoustic)
●	●			Designed and tested for climatic class SN (ambient temperature range +10°C to +32°C)
		●	●	Designed and tested for climatic class N (ambient temperature range +16°C to +32°C)
	●			Designed and tested for climatic class SN / T (ambient temperature range +10°C to +43°C) <i>[only for B range]</i>
	●	●		Ethernet interface for the visualization of all operating and control functions (hardware and software settings) via "B Connected monitoring software on a peripheral device (computer)
	●		●	Interior made from stainless steel <i>[Evaporator plates and drip channel made from stainless steel for CSF range]</i>
●	●	●	●	Internal LED lighting <i>[not applicable for F/U ranges]</i>
	●	●	●	Additional remote transmission alarm signal (via potential-free contact) in case of power failure (change-over contact)
	●	●	●	Smooth castors for optimum flexibility of movement
	○		○	External water cooling <i>[not applicable for B range]</i>
	●	○	●	Ambient temperature sensor
○	●	●	○	"B Connected - Universal software for the monitoring of refrigeration devices, including the acquisition, recording and visualization of temperature data
○				DCU (Data Communication Unit) - Hardware module monitoring all operating conditions and passing them through to a central database – via local network

NEW

Innovation for more reliability

PRECISION LINE | MODELS B 55-130-290

PREMIUM LINE | MODELS B 400-500-700-900 & F/U 401-501-701-901

1 Integrated multi-function electronics

Integrated B Medical Systems multi-function electronics, at easy access level, in the door handle; compatible with a °B Connected monitored solution.

2 Lifetime warranty corrosion-free cabinet

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

Userfriendly and longer lifetime

1 Exclusive innovative handle bar (patent pending)

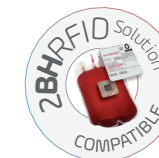
All functionalities at easy reach:

- Open/close - Heavy duty door lock mechanism
- Digital control with full functionalities - Standard multifunction digital sensitive 4.3" panel integrated at eye level in the door handle with full commands and connections, or optional full 7" touchscreen with pre-installed connection allowing exclusive °B Connected monitoring functionalities

2 High quality materials

High quality new coating, certified medical devices quality and antibacterial, on high quality steel for a better longevity and easy hygiene control.

OUR STANDARDS OF COMPLIANCE – DEPENDING ON THE PRODUCT



SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

European Medical Device Directive 93/42/EEC

B Medical Systems S.à r.l. successfully passed the certification audit according to the harmonized European Quality Management System Standard for Medical Devices EN 13485 and the European Medical Device Directive 93/42/EEC.

All medical devices manufactured by B Medical Systems S.à r.l. will be labeled with the CE-Label (CE 0123). The product in question concerns blood product cooling devices / blood bank refrigerators. A blood storage refrigerator and a blood storage freezer are devices intended for medical purposes that are used to preserve blood and blood products by storing them at cold or freezing temperatures.

Our medical device products will be all blood banks refrigerators from our range B, as well as all plasma freezers from our ranges F and U, all platelet agitators from our range PA and all contact shock freezers from our range CSF.

WHY THE EN 13485 CERTIFICATION?

This EN Standard was published in 2003 and represents the requirements for a comprehensive management system for the design and manufacture of Medical Devices.

This certificate demonstrates that an organization is able to provide Medical Devices and related services, meeting customer and regulatory requirements applicable to medical devices and related services. The primary objective is to facilitate harmonized Medical Device regulatory requirements for quality management systems.

The positive assessment to this certificate allows the CE Mark and the permission to sell the Medical Device in the European Union.

THE REAL IMPORTANCE OF THE DIRECTIVE 93/42/EEC

The Medical Device Directive, Council Directive 93/42/EEC of June 1993, is a “new approach” Directive in order for a manufacturer to legally place a medical device on the European market. The consolidated directive is mandatory since March 2010 and establishes essential requirements and standards for the manufacture, design and packaging of medical devices.

The Medical Device calls for all manufacturers who distribute in the European Economic Area to comply with essential requirements that benefits the safety of those in the EEA. The devices must be designed and manufactured in such a way that as they are used by users, they will no way compromise the health of patients.



OUR MEDICAL DEVICE RANGES:

- Platelet Agitators | PA range
- Blood Bank Refrigerators | B range
- Plasma Storage Freezers | F range
- Distribution Freezers | U range
- Contact Shock Freezers | CSF range

Blood Traceability

Global Haemovigilance at a glance

The
2BHRFID
Solution



COMPLETE TRANSPARENCY FROM DONOR TO RECIPIENT

In order to meet the specific management and traceability needs of the blood transfusion process, B Medical Systems has developed the 2BH-RFID solution –allowing optimized tracking of blood bag information via Radio-Frequency Identification (RFID) technology. As part of the identification process during the preparation stage, an RFID chip is fixed on to each blood bag. When an order comes in from a healthcare establishment, the distribution operator selects the bags and encodes each bag's RFID chip with its destination. The blood donation number and product code registered to the chip are read automatically, which allows the central information system to be interrogated and to record specific data on each blood bag, the deadline for its return to the blood establishment, destination and patient information.

OUR 2BH-RFID SOLUTION OFFERS THE FOLLOWING KEY BENEFITS:

- **Reliable identification and traceability of blood bags.** The blood donation number, product code and all-important patient information are automatically recorded in the RFID chip's memory.
- **Patient safety.** Digital management of the transfusion chain eliminates retranscription errors and guarantees delivery of the right product to the right patient.
- **Savings on a rare resource.** Complete information on a blood bag's identity and temperature allows better use of a rare resource. Remaining unused blood bags no longer need to be thrown away, as the chips accurately indicate their status.
- **Optimal operational efficiency.** By providing information on remote stocks and real-time visibility in the supply chain, our solution supports streamlined distribution and a reduction in costs.

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

Platelet Agitators

B Medical Systems | PA Range

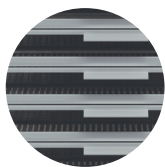
New exclusive integrated incubator and platelet agitator for a better product safety

> according to Medical Device 93/42/EEC



1 Exclusive individual motion system

Each tray has its individual motion system and access through its own door. This exclusive individual start and stop system allows work on a specific tray without affecting the motion of the others and ensures a better temperature stability of the unit. Each tray has its own LED lighting.



2 Best storage capacity

For the same footprint, our platelet agitators offer the best storage capacity per square meter. A wide range of storage capacities are available: 3 to 14 trays per unit.

3 Motion adaptable to your needs

The platelet motion is adaptable according to the needs of the user. Three motion types are available: linear, elliptic or circular.



4 Autonomous integrated incubator

Our unique two-in-one incubated platelet agitators offer movement, cooling or heating in ONE global module within an optimized footprint.

5 Built-in rechargeable battery backup

In case of power failure, the built-in rechargeable battery backup provides continuous movements up to 1 hour for 14 trays and air circulation.

6 Easy maintenance and cleaning

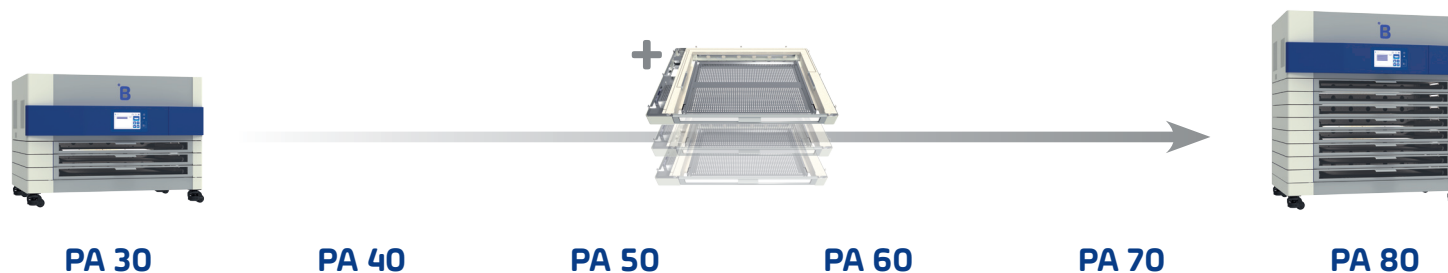
All parts of our platelet agitators are easily removable to make cleaning and maintenance simple (doors and trays are easily removable; each individual motion system is replaceable within 5 minutes).



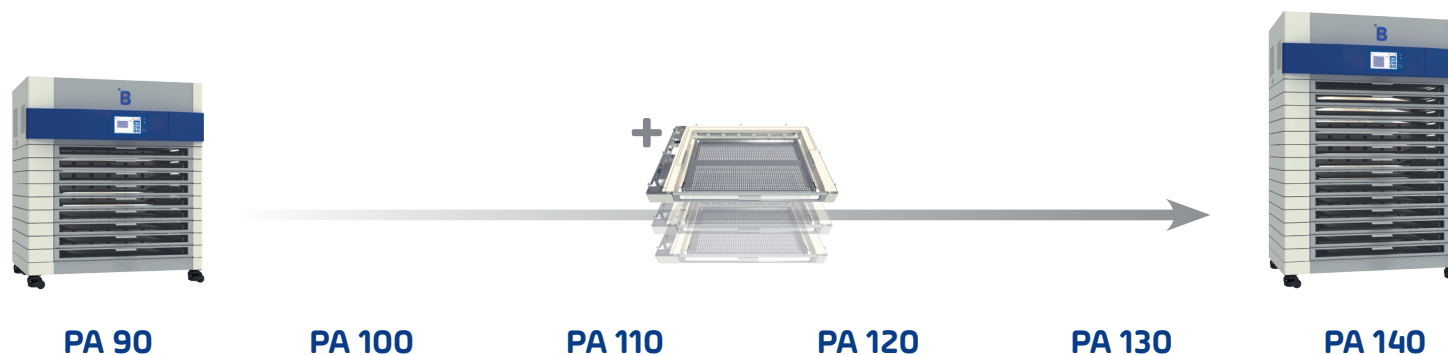
The product range **Platelet Agitators** offers modularity from 3 trays for a capacity of 30 bags (500 ml) to 14 trays for a capacity of 140 bags (500 ml), capacity is adjustable to your needs from 3 to 14 trays.



Platelet Agitators



	PA 30	PA 40	PA 50	PA 60	PA 70	PA 80
<i>Number of individual trays (standard)</i>	3	4	5	6	7	8
<i>Storage capacity (500ml bags)</i>	30	40	50	60	70	80
<i>External dimensions H x W x D (mm)</i>	760 x 1035 x 725	830 x 1035 x 725	900 x 1035 x 725	970 x 1035 x 725	1040 x 1035 x 725	1110 x 1035 x 725



	PA 90	PA 100	PA 110	PA 120	PA 130	PA 140
<i>Number of individual trays (standard)</i>	9	10	11	12	13	14
<i>Storage capacity (500ml bags)</i>	90	100	110	120	130	140
<i>External dimensions H x W x D (mm)</i>	1180 x 1035 x 725	1250 x 1035 x 725	1320 x 1035 x 725	1390 x 1035 x 725	1460 x 1035 x 725	1530 x 1035 x 725

Blood Bank Refrigerators

B Medical Systems | B Range

The product range **Blood Bank Refrigerators** offers volumes from 52 to 895 litres. B models feature a natural defrosting system and are equipped with a PMMA organic glass door for quick checks and pre-selection of the refrigerator's content. The interior temperature is monitored via an autonomous control sensor and adjusted to +4°C. This ensures that the product temperature of the stored preparations is kept at $+4^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

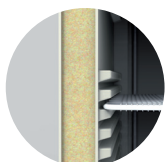
Refrigerators for the legally safe storage of blood bags / erythrocyte concentrates

> according to DIN 58371, ÖNORM K 2030 & Medical Device 93/42/EEC



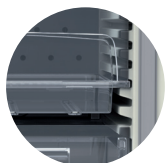
1 Integrated multi-function electronics

Integrated B Medical Systems multi-function electronics, at easy access level, in the door handle; compatible with a °B Connected monitored solution.



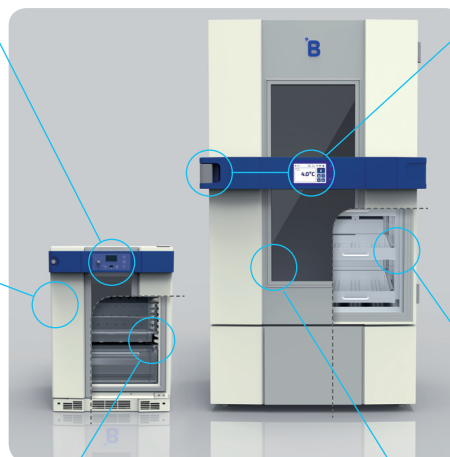
2 Lifetime warranty corrosion-free cabinet

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



3 High storage capacity

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



1 Exclusive innovative handle bar (patent pending)

All functionalities at easy reach:

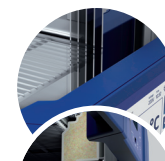
- Open/close - Heavy duty door lock mechanism
- Digital control with full functionalities - Standard multifunction digital sensitive 4.3" panel integrated at eye level in the door handle with full commands and connections, or optional full 7" touchscreen with pre-installed connection allowing exclusive °B Connected monitoring functionalities

2 High quality materials

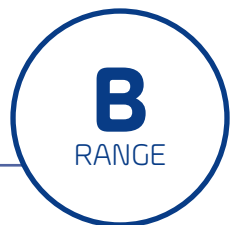
High quality new coating, certified medical devices quality and antibacterial, on high quality steel for a better longevity and easy hygiene control.

3 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 a better longevity.



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.



Blood Bank Refrigerators



B 55



B 130



B 290

<i>Gross / Net volume (l)</i>	52 / 45	121 / 106	297 / 269
<i>Storage capacity (blood bags)</i>	24 (450ml) / 32 (350ml)	51 (450ml) / 69 (350ml)	171 (450ml) / 231 (350ml)
<i>External dimensions H x W x D (mm)</i>	660 x 515 x 495	820 x 635 x 595	1660 x 635 x 595



B 400



B 500



B 700



B 900

<i>Gross / Net volume (l)</i>	451 / 384	598 / 510	747 / 636	895 / 763
<i>Storage capacity (blood bags)</i>	255 (450ml) / 345 (350ml)	340 (450ml) / 460 (350ml)	425 (450ml) / 575 (350ml)	510 (450ml) / 690 (350ml)
<i>External dimensions H x W x D (mm)</i>	1988 x 610 x 973	1988 x 756 x 973	1988 x 903 x 973	1988 x 1050 x 973

THE B RANGE COMPRISES 7 BLOOD REFRIGERATORS THAT ARE BUILT IN COMPLIANCE WITH THE REQUIREMENTS OF :

- DIN 58371 (Germany, "Blutkonserven-Kühlgeräte" / Blood Refrigerators)
- ÖNORM K 2030 (Austria, "Blutkonserven-Kühlschränke" / Blood Refrigerators)
- European Medical Device Directive 93/42/EEC

In conformity with:

- AS 3864 (Australia, "Medical refrigeration equipment – for the storage of blood & blood products")
- BS 4376-1: 1991 (UK, "Electrically operated blood storage refrigerators. Specifications for closed reach-in types")
- European Directive "Guide to preparation, use and quality assurance of blood components"

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

Plasma Storage Freezers

B Medical Systems | F Range

Freezers for the low-temperature storage of plasma and other substances under optimum conditions > **according to DIN 58375 & Medical Device 93/42/EEC**



1 Exclusive innovative handle bar (patent pending)

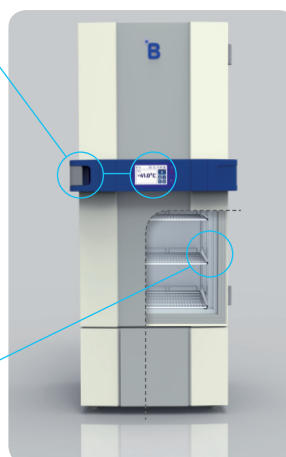
All functionalities at easy reach:

- Open/close - Heavy duty door lock mechanism
- Digital control with full functionalities - Standard multifunction digital sensitive 4.3" panel integrated at eye level in the door handle with full commands and connections, or optional full 7" touchscreen with pre-installed connection allowing exclusive °B Connected monitoring functionalities



2 High quality materials

High quality new coating, certified medical devices quality and antibacterial, on high quality steel for a better longevity and easy hygiene control.



3 Special features (F range)

- New evaporator offering better performance than market average, resulting in less building of ice and automatic defrost
- Insulated inner doors for significantly lower loss of cold when opening



The product range **Plasma Storage Freezers** offers volumes from 451 to 895 litres. F models are the perfect solution for a safe storage and handling of temperature-sensitive preparations such as plasma and other blood products in conformity with national and international norms and guidelines (DIN 58375 & Medical Device 93/42/EEC).



Plasma Storage Freezers



F 401



F 501



F 701



F 901

Gross / Net volume (l)	451 / 384	598 / 510	747 / 636	895 / 763
Storage capacity (plasma bags)	345 (350ml)	460 (350ml)	575 (350ml)	690 (350ml)
External dimensions H x W x D (mm)	1988 x 610 x 973	1988 x 756 x 973	1988 x 903 x 973	1988 x 1050 x 973



Distribution Freezers

B Medical Systems | U Range

Distribution Freezers for the low-temperature storage of temperature-sensitive preparations under optimum conditions > **according to Medical Device 93/42/EEC**



1 Exclusive innovative handle bar (patent pending)

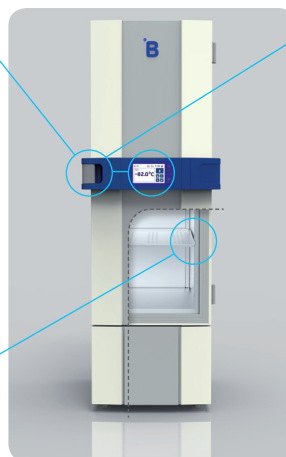
All functionalities at easy reach:

- Open/close - Heavy duty door lock mechanism
- Digital control with full functionalities - Standard multifunction digital sensitive 4.3" panel integrated at eye level in the door handle with full commands and connections, or optional full 7" touchscreen with pre-installed connection allowing exclusive °B Connected monitoring functionalities



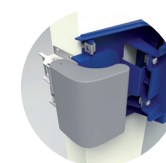
2 High quality materials

High quality new coating, certified medical devices quality and antibacterial, on high quality steel for a better longevity and easy hygiene control.



3 Special features (U range)

- Integrated pressure release valve in the door permitting faster opening in one move, and offering easy access for cleaning or defrost
- Insulated inner doors for significantly lower loss of cold when opening
- Full compatibility of inner modules and rails, no need to buy new racks, you can keep racks previously used in different U models



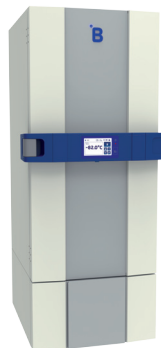
The product range **Distribution Freezers** offers volumes from 451 to 895 litres. U models reflect the highest and most uncompromising requirements with state-of-the-art technology and economy. The cooling system is optimally designed with respect to energy consumption as well as to the development of waste heat and noise. Standard factory setpoint is -41°C, temperature is adjustable from -20°C to -86°C.



Distribution Freezers



U 401



U 501

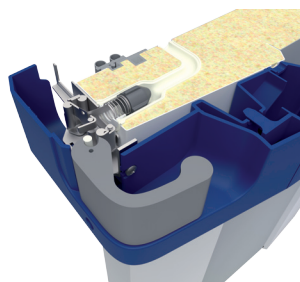


U 701



U 901

<i>Gross / Net volume (l)</i>	451 / 434	598 / 577	747 / 720	895 / 863
<i>Storage capacity (plasma bags)</i>	345 (350ml)	460 (350ml)	575 (350ml)	690 (350ml)
<i>Storage capacity (cryoboxes)</i>	300 (50 x 136 x 136 mm)	400 (50 x 136 x 136 mm)	500 (50 x 136 x 136 mm)	600 (50 x 136 x 136 mm)
<i>Storage capacity (vials 2ml)</i>	30000	40000	50000	60000
<i>External dimensions H x W x D (mm)</i>	1988 x 610 x 973	1988 x 756 x 973	1988 x 903 x 973	1988 x 1050 x 973



INTEGRATED PRESSURE RELEASE VALVE

This aluminium die cast mechanism offers a strong and ergonomic handle that allows to open the door with one hand while releasing the vacuum inside ultra-deep freezers. This change in the position of the vacuum release valve provides an easy access to clean it.

The mechanism can also be locked electronically through the interface via a solenoid.

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

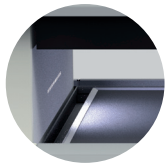
Contact Shock Freezers

B Medical Systems | CSF Range

High performance contact shock freezing technology for blood plasma, biological and pharmaceutical preparations > **according to Medical Device 93/42/EEC**

1 Fastest contact shock freezers worldwide

Our contact shock freezers provide the shortest freezing cycle on core temperature of -30°C: nearly 100 units of 250 ml within less than 60 minutes.

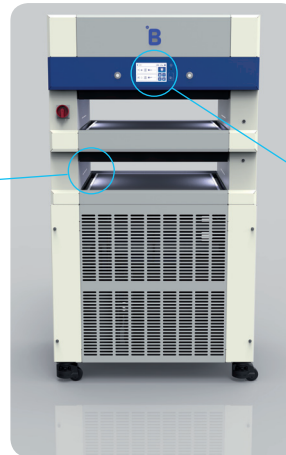


2 State-of-the-art contact freezing technology™

Our innovative and patent pending system of inclined trays delivers the most homogeneous freezing and offers the best in repeatability and productivity, with operator independent performance for 100% performance consistency.

3 Highest degree of ergonomics

Each tray has an effective and usable height, giving easier access for quicker loading and enabling easier manipulation of bags.



4 Optimized pull-down of the layers

The freezing down is quicker, the clinical payback on investment is maximised and the concentration of factors 8, 9 and albumin is increased.

5 Integrated multi-function electronics

Located at eye level, the electronics are easily accessible and can be connected with our fully integrated monitored solutions for a complete traceability of frozen bags.



6 Maintenance-friendly design

Our contact shock freezers offer an easy cleaning and disinfection facility.



The product range **Contact Shock Freezers** are designed for the fast freezing of blood plasma, biological and pharmaceutical preparations to a core temperature of -30°C.

CSF models are built in compliance with directives for the preparation of blood plasma.



Contact Shock Freezers

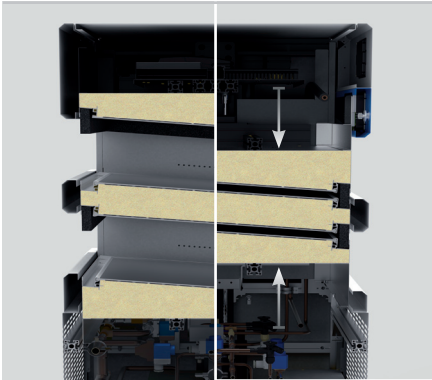
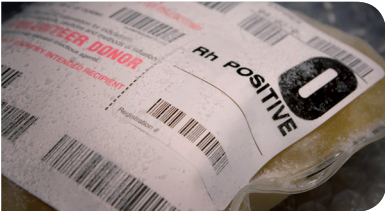


CSF 60



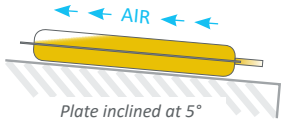
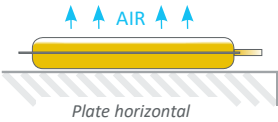
CSF 100

Freezing capacity (plasma bags)	20 at 1000ml (content 850ml) / 60 at 350ml (content 250ml)	32 at 1000ml (content 850ml) / 96 at 350ml (content 250ml)
Freezing time to core temperature of -30°C	20 units (1000ml) ± 45 min / 60 units (350ml) ± 55 min	32 units (1000ml) ± 45 min / 96 units (350ml) ± 55 min
Operating temperature (preset), reached within ± 10 min (pre-cooling phase)	-45°C (upper & lower contact plate)	-45°C (upper & lower contact plate)
External dimensions H x W x D (mm)	1910 x 1080 x 830	1910 x 1500 x 830



OPTIMIZED CONTACT FREEZING

- Levels operate independently, allowing simultaneous freezing and defrosting as necessary
- Inclined plates at 5° ensure full contact with plasma and minimizes effect of air trapped in bags negatively influencing repeatability of freezing cycle times, providing operator independent performance for 100% performance consistency



SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

Transport Systems

B Medical Systems | MT Range

Transport Systems for the safe transport of temperature-sensitive products

> according to ADR / RID / IMDG / ICAO-TI / IATA-DGR



MT 2



MT 4



MT 8



MT 12



MT 25



MT 100

<i>Cooling system</i>	Passive	Passive	Passive	Passive	Passive	Active (Compressor)
<i>Gross volume (l)</i>	2.2	8	20	24	44	90
<i>Storage capacity (bags)</i>	1 (450ml) / 2 (270ml)	4 (450ml) / 6 (270ml)	8 (450ml) / 14 (270ml)	15 (450ml) / 25 (270ml)	25 (450ml) / 40 (270ml)	48 (450ml)
<i>External dimensions H x W x D (mm)</i>	210 x 250 x 150	299 x 362 x 283	437 x 588 x 288	499 x 550 x 475	499 x 710 x 550	1000 x 520 x 800

The product range **Transport Systems** offers volumes from 2.2 to 90 litres. The model range MT consists of five passive transport systems and one active transport box, working with a compressor. B Medical Systems transport systems are ideal for intensive use with many transport applications, even under difficult climatic conditions.

MT models conform with the European agreement on the international transport of hazardous goods by Road (ADR), by Rail (RID), by sea (IMDG) and with the International agreement for air transport (ICAO-TI / IATA-DGR).

For all passive transport boxes eutectic cooling systems are available as an option (-32°C, +4°C, +22°C and +37°C).

Optimum control and protection

B Medical Systems | °B Connected & DCU Software

°B CONNECTED | MONITORING SOFTWARE

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



- Unique monitoring software of 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 forwarding, via email or SMS
- Generation of reports compiling crucial data and activities
- Temperature and detailed device data export for third-party software
- Important price advantage compared to a traditional circular chart recorder and its spare parts

KEY BENEFITS :

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

DCU | DATA COMMUNICATION UNIT

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 curves and configuring devices and alarms easily
- Direct connection to Ethernet and serial bus RS485
- Connection port to temperature sensor (4 ... 20 mA in)
- Digital in/out (programmable and customer-specific use)
- Recording and storing appliance relevant data
- Integrated USB port and SD-card reader allowing to export stored data
- Bluetooth interface for technical support and data export
- The DCU combined with the °B Connected software replaces the paper temperature recorder
- All data are recorded and saved in the database of °B Connected and are available for analysis at any time
- Several additional self-sufficient temperature sensors (up to 4 PT1000) may be connected

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 Connected & DCU in combination offer a highly flexible system that is adaptable to specific customer requirements

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

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY



Blood Management Solutions

*Safe global blood management:
from collection to transfusion,
transportation, processing and storage*



Cold Chain

*Reliable and innovative solutions
for safe vaccination around the world*



Medical Refrigeration

*State-of-the-art technology
for the exacting needs of the medical world*



medical
systems

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

B Medical Systems (formerly Dometic Medical Systems) has more than 35 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.

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