



medical
systems

From Azenta Life Sciences

Your trusted partner
for all your medical
cold chain needs

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY





B Medical Systems S.a r.l. (formerly Dometic/ Electrolux) is a global manufacturer and distributor of medical cold chain solutions. Based in Hosingen, Luxembourg, the company was founded in 1979, when the WHO approached Electrolux to provide a solution to safely store and transport vaccines around the world.

Across the 3 major business portfolios of Vaccine Cold Chain, Medical Refrigeration, and Blood Management Solutions, the company currently offers 100+ models with integrated 24/7 remote monitoring capabilities, further ensuring the highest levels of safety and reliability.

As the established market leader in the Vaccine Cold Chain, B Medical Systems has supplied reliable products across the world to support its partners in vaccinating more than 350 million children. Through its long-lasting relationships with global humanitarian organisations such as UNICEF, the WHO, Gavi, Health Ministries, etc., the company has installed more than 500K products across 130+ countries around the world for the safe storage and transport of vaccines, medicines, blood, and other specimens.

During the COVID-19 pandemic, B Medical Systems actively supported the SARS-CoV-2 immunisation programs world-wide, by supplying governments with reliable and versatile vaccine cold chains able to meet all the storage temperature requirements.

B Medical Systems is also one of the first few companies to have received the EU MDR certification for its active refrigeration product lines across the Medical Refrigeration and Blood Management business lines, while also being one of the few companies in the world to have an end-to-end refrigeration solution certified by the EU MDR, US FDA and WHO PQS.

Electrolux

1974

WHO & UNICEF
launch EPI

1979

Meeting in London:
Start of Cold Chain



B medical
systems

2015

2017



Launch of New Generation
Medical Refrigeration

2019



Launch of US Subsidiary

2021



Launch of India Subsidiary

2013



Launch of Solar Direct Drive
(SDD) models

2010

Launch of Green Line

2005



Acquisition of TUS
and launch of MBF
models

2001

 Dometic

Established
as Dometic

1980



First Cold Chain product

1992

Launch of Medical Line

1995



Launch of Silver Line

2000



Launch of Gold Line



People First

We believe that the key to our success is our people, not only the passionate talents that create and distribute our technology, but also the health care community that utilizes our medical devices.



Trust

We aspire to build trust in every interaction, creating a culture of confidence with our stakeholders. We take pride in the long-lasting collaborations we have built with our customers. Wherever they are, they know that they can count on us.



Excellence

We strive to be the best at what we do and to lead by example. Our quality and reliability reflect the extensive experience we gained over our 40 years in the industry.





Vaccine Cold Chain

Innovative transport and storage solutions for safe vaccinations around the world.



Medical Refrigeration

Cutting-edge storage and transport solutions for your valuable biomedical samples.



Blood Management Solutions

Reliable transport, cooling and storage solutions for safe blood transfusions globally.





Vaccine Cold Chain

Innovative transport and storage solutions
for safe vaccinations around the world.



Vaccine capacity
Up to 400+ L



Ice-Pack capacity
Up to 187 (0.6 L)



Real-time
Monitoring

Having been in the Vaccine Cold Chain space for over 40 years and being the global leader in this industry, B Medical Systems offers a multitude of products to ensure that vaccines are safe throughout all the stages of storage and transport until the last mile: Solar Direct Drive (SDD) Refrigerators and Ice-Pack Freezers, Ice-Lined Refrigerators and Freezers (ILRs), and Transport Boxes are all included in the company's Vaccine Cold Chain portfolio.

B Medical Systems' Vaccine Cold Chain products are extremely robust and are designed for extensive use even in the most remote locations around the world. The product portfolio is designed to ensure that vaccines can be stored safely in places with unreliable and unstable electricity and includes models using solar energy and those able to work reliably even during voltage spikes. Moreover, all units are certified to work even in tropical conditions.

B Medical Systems offers 24/7 remote monitoring technology that further ensures that vaccines are always stored safely.



Reliability

Integrated electronics, alarms and remote monitoring systems ensure the best 24/7 vaccine safety



Innovation

Robust, rust-free and innovative designs and technologies ensure a long product life even in harsh environments



Lowest TCO

Lowest total costs of ownership linked to the maintenance, temperature monitoring and energy consumption of every unit throughout their lifetime





Solar Vaccine Refrigerators & Ice-Pack Freezers

Designed to provide a reliable cold chain in areas with unreliable power supply by relying solely on solar energy



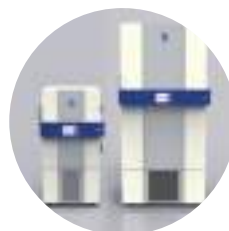
Vaccine Refrigerators & Freezers

Designed to support any vaccination campaign around the world



Vaccine Transport Boxes

Providing solutions for the safe transport of vaccines until the last mile



Ultra-Low Freezers | -86°C to -20°C

Designed to store the most temperature-sensitive vaccines, even in the most remote areas



Refrigerated Vaccine Transport Vehicle

For the rapid and reliable transport of vaccines over long distances



Energy Harvesting System

Powering essential devices using excess solar energy



Medical Refrigeration

Cutting-edge storage and transport solutions
for your valuable biomedical samples.



Temperature
-86°C to +15°C



Gross Volume
Up to 949 L



Green
Refrigerants

B Medical Systems offers a wide range of solutions to safely store and transport any temperature-sensitive specimen. Maintaining an unbroken cold chain is essential to preserve their integrity, stability, and shelf life, and the company's refrigeration line can easily provide a reliable temperature-controlled storage environment for laboratories, hospitals, pharmacies, biorepositories, blood banks, etc., while greening up their operations.

The portfolio offers solutions for multiple biologicals' temperature requirements, with its models being able to cater to temperature specifications ranging from -86°C to +15°C, with superior temperature stability and uniformity, as well as remarkable recovery times following door openings and warm up times.

The °B Connected solution and the Remote Temperature Monitoring Devices ensure that biological products are always stored in the most ideal conditions.



Reliability

Optimal sample safety and 24/7 protection



Efficiency

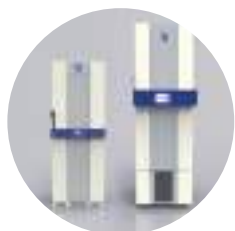
High-performing compressors running on green refrigerants



Convenience

User-friendly and modular solutions for any cooling need





Laboratory Refrigerators | 🌡️ +4°C to +15°C

Designed to safely store biologicals at reliable and stable temperatures



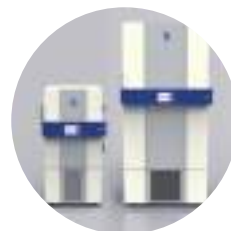
Laboratory Freezers | 🌡️ -41°C to -20°C

For the low-temperature storage of temperature-sensitive preparations, samples, and pharmaceuticals



Pharmacy Refrigerators | 🌡️ +4°C to +15°C

To help medical professionals to keep their medicines and samples at the right temperature



Ultra-Low Freezers | 🌡️ -86°C to -20°C

Designed to store the most temperature-sensitive medicines, vaccines and samples



Medical Transport Boxes | 🌡️ -32°C/+4°C/+22°C/+37°C

Providing the needed solutions for the safe transport of medicines and samples



Blood Management Solutions

Reliable transport, cooling and storage solutions for safe blood transfusions globally.



Temperature
-86°C to +4°C



Bags capacity
Up to 750 (350ml)



Real-time
Monitoring

Blood, blood plasma and other blood components are biological samples that can easily degrade if kept at temperatures outside their optimal range, just like vaccines. B Medical Systems designed refrigeration and transport systems that could reliably keep blood and plasma at a stable temperature to maintain their quality.

The products within this portfolio are ideal for blood banks, hospitals, clinics, etc., as they provide an end-to-end reliable cold chain for the safeguarding of blood and its components at any time: from the time it is collected from donors until it is transfused to the recipients.

The °B Connected solution and the Remote Temperature Monitoring Devices ensure that samples are always stored in the most ideal conditions.



Reliability

Optimal sample safety and 24/7 protection



Efficiency

High-performing compressors running on green refrigerants



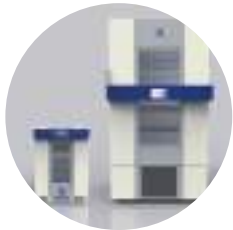
Convenience

User-friendly and modular solutions for any cooling need





Blood Management Solutions



Blood Bank Refrigerators | 🌡️ +4°C

Intended for the safe storage of blood and blood components



Blood Bank Chest Refrigerators | 🌡️ +4°C

For the cooldown and safe storage of blood



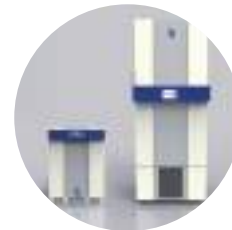
Blood Transport Boxes | 🌡️ -32°C/+4°C/+22°C/+37°C

Providing the needed solutions for the safe transport of blood and its components



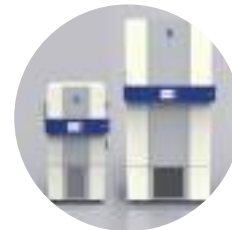
Plasma Contact Shock Freezers | 🌡️ -30°C

For the rapid cooling of plasma



Plasma Storage Freezers | 🌡️ -41°C to -32°C

Intended for the safe storage of frozen blood plasma or blood components



Ultra-Low Freezers | 🌡️ -86°C to -20°C

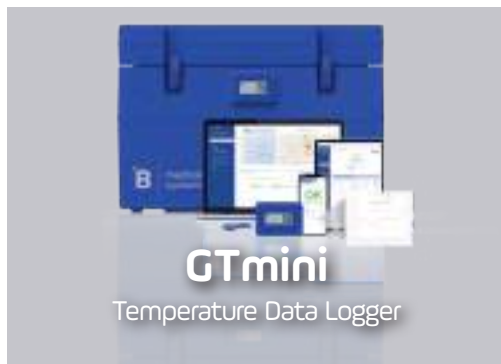
For the ultra-low temperature storage of blood and blood components



°B Connected from B Medical Systems offers a unique interface for monitoring the full range of active Medical Refrigeration and Blood Management Solutions products and provides a centralized database featuring data access and long-term archiving. The software, along with the ability to acquire, record and visualize the temperature data, can be accessed via the web-based portal. It is also compliant to technical controls of the 21 CFR Part 11 regulation (subpart A and B).



The Remote Temperature Monitoring Device (RTMD) from B Medical Systems monitors the temperature inside refrigerators and freezers, alerting you in real-time if the temperature goes outside the optimal range. These devices track various parameters such as the internal storage temperature, ambient temperature, lid openings and more, and then stream the data attributes via a communication network. This data is then converted and shared via a cloud-based portal for real-time visibility of the performance of the units.



B Medical Systems' GT (Global Tracker) Mini ensures end-to-end real-time monitoring of temperature-sensitive specimens like vaccines, medicines and more. It offers a real-time view of the internal storage temperature, external/ambient temperature, and location of the transport box it is connected to. The GT Mini, along with TempSense, uses state-of-the-art technology to capture the data in real-time and to instantly alert the users of any anomalies.



Cold storage solutions are certified medical devices according to MDR (EU) 2017/745 and US FDA regulations*. WHO PQS certified.**



*Applicable to all products except Vaccine Cold Chain and Transport Boxes. **Applicable to most of the Cold Chain products.



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**Our products are used across the world
for storing vaccines and other temperature-sensitive products.**



**500K+ products
installed**



**Presence in 150+
Countries**



100+ Patents



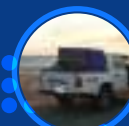
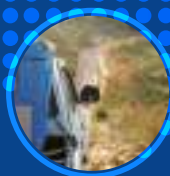
**100+ Certified
Medical Devices**



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Blood Management Solutions

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



Vaccine Cold Chain

Reliable solutions for safe vaccination around the world



Medical Refrigeration

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



After Sales support and service

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.

Our Global Expertise



From Azenta Life Sciences

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.

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WE SUPPORT



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.