medical systems

Your trusted partner **for all your medical cold chain needs**

MADE IN LUXEMBOURG

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

MADE IN LUXEMBOURG

B Medical Systems S.a r.l. (formely 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 170+ 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

1980
First Cold Chain product

2017

Launch of New Generation Medical Refrigeration

2019

Launch of US Subsidiary

2021

Launch of India Subsidiary

2022

Azenta Life Sciences acquires B Medical Systems

2015

2013

Launch of Solar Direct Drive (SDD) models

2010

Launch of Green Line

2005

Acquisition of TUS and launch of MBF models

1992

Launch of Medical Line

1995

Launch of Silver Line

2000

Launch of Gold Line

2001

Established as Dometic

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 240 L

Ice-Pack capacity
Up to 162 (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 solutions that further ensure 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

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

Vaccine Cold Chain

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.

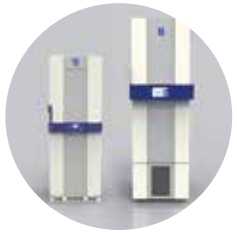
The portfolio offers solutions for multiple biologicals' temperature requirements, with its models being able to cater to temperature specifications ranging from -86°C to +15°C*, with superior temperature stability and uniformity, as well as remarkable recovery times following door openings and warm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

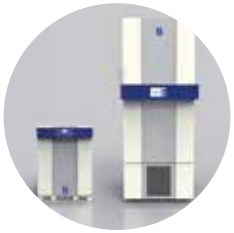
* depending on the model
Subject to change without prior notice. Some of the accessories shown in the pictures are optional.

Medical Refrigeration



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

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

* depending on the model
Subject to change without prior notice. Some of the accessories shown in the pictures are optional.

Blood Management Solutions

Blood Bank Refrigerators | +4°C

Intended for the safe storage of blood and blood components

Blood Bank Chest Refrigerators | +4°C

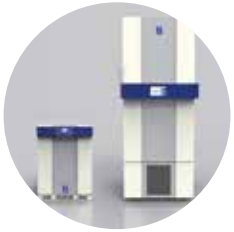
For the cooldown and safe storage of blood

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

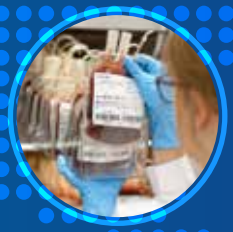
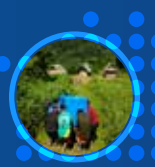
°B Connected is B Medical Systems' universal solution for the remote monitoring of refrigeration devices.

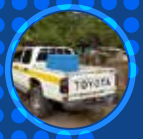
It offers a unique interface for monitoring the full range of active Medical Refrigeration and Blood Management Solutions products and provides a centralized database providing data access and long-term archiving.

The software, along with the ability to acquire, record and visualise the temperature data, can be accessed via the web-based portal.

The Remote Temperature Monitoring Device (RTMD) from B Medical Systems monitors the temperature inside the 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 at no extra installation cost.



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

500K+ products installed

Presence in 170+ Countries

100+ Patents

100+ Certified Medical Devices

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

Our Global Expertise

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.

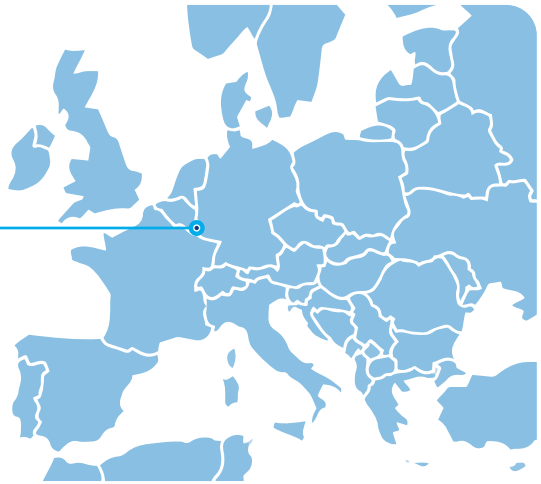
B medical systems

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. In 2015 after MBO, the company was named B Medical Systems.

Luxembourg, in the heart of Europe



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WE SUPPORT UN GLOBAL COMPACT

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.

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