

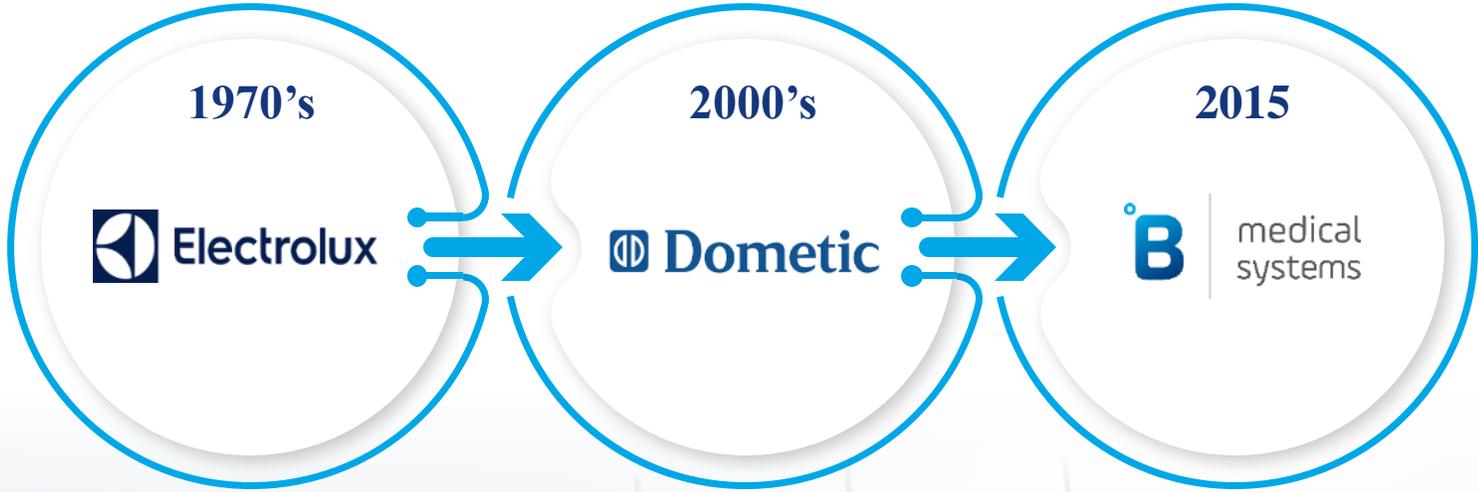


medical
systems

B Medical Systems

Saving Lives Through Reliable and Innovative Technology

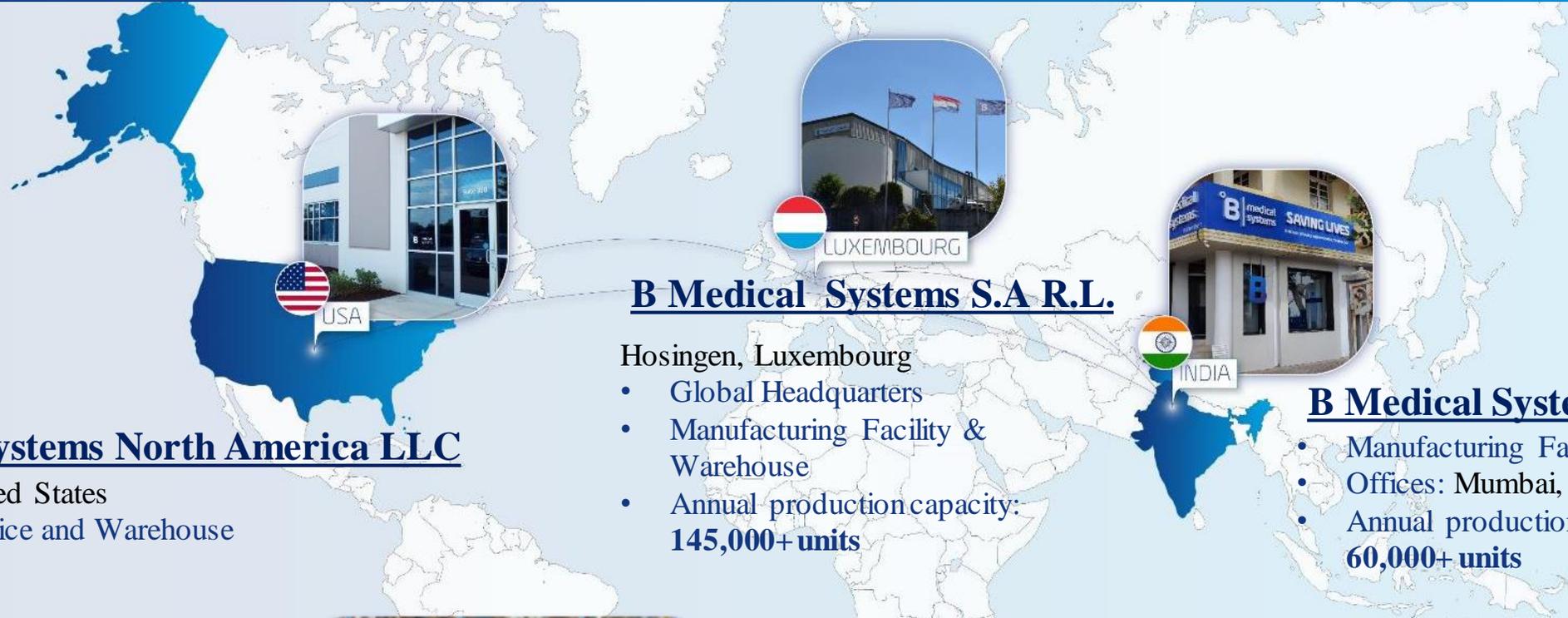
**Global market leader
in vaccine cold chain
for more than 40
years; Trusted partner
of global humanitarian
organizations and
global bodies**



Facilities in Luxembourg, India and USA; State-of-the-art manufacturing facilities capable of ramping up output based on demand



Our Locations



B Medical Systems North America LLC

- Noblesville, United States
- US Sales Office and Warehouse
- HC: 10

B Medical Systems S.A R.L.

- Hosingen, Luxembourg
- Global Headquarters
- Manufacturing Facility & Warehouse
- Annual production capacity: **145,000+ units**

B Medical Systems India Pvt Ltd

- Manufacturing Facility: Mundra, Gujarat
- Offices: Mumbai, Ahmedabad and Delhi
- Annual production capacity in India: **60,000+ units**





Strong relationships with governments across the world



INDIA NEWS

PM Modi pushes refrigerated vaccine transport boxes tie up with Luxembourg company in Gujarat

According to official sources based in Delhi and Ahmedabad, Luxembourg firm B Medical Systems is sending a high-level team to Gujarat next week to set up a vaccine cold chain including solar vaccine refrigerators, freezers and transport boxes.



Prime Minister Narendra Modi has taken up the offer of Luxembourg Prime Minister Xavier Bettel for setting up of a specialized refrigerated vaccine transportation plant in Gujarat (HT Photo)





Supported countries around the world in their COVID-19 fight

70,000+
Units shipped to

140+
Countries

Vaccines Stored

AstraZeneca



BIONTECH

COVAXIN™

BHARAT BIOTECH



SINOVAC™

SINOPHARM

Sputnik V

THE FIRST REGISTERED COVID-19 VACCINE
PROVEN HUMAN ADENOVIRAL VECTOR TECHNOLOGY



moderna

SERUM INSTITUTE OF INDIA PVT. LTD.

COVISHIELD®



Temperature Ranges Supported

-90°C to -60°C

-50°C and -20°C

-20°C to 0°C

+2°C to +8°C

Our Segments



Vaccine Cold Chain

Reliable and innovative solutions for safe vaccination around the world



Medical Refrigeration

Safe and risk-free storage / transport solutions for temperature-sensitive materials



Blood Management

Innovative and safe solutions for the storage and treatment of blood and its derivatives



Remote Monitoring Solutions



Our solutions : Reliable and versatile medical cold chain solutions

for storage and transport at temperatures from +15 to -86°C



Storage Temperature

+4°C to +15°C +2°C to +8°C -20°C to -41°C -40°C to -86°C

Ambient Temperature

<10°C

+10°C to +25°C

+25°C to +32°C

+32°C to +43°C

Specimen Type



Vaccines



Lab Preparations



Blood and Blood Components



Specimens, Reagents and Others

Power Sources



Solar Power



Passive Range /PCM



AC Powered
220V / 230V / 115V



Last Mile Delivery Vehicle

Our solutions cover the -86 °C to +15 °C temperature range, across all segments



Ultra-Low Freezers (U)

Set Point: -86°C to -20°C
Volume Range: 217L – 900L
7.6Cu.ft- 31.7Cu.ft

Freezers (F)

Set Point*: -41°C to -20°C
Volume Range: 106L- 768L
3.7 Cu.ft – 27.12 Cu.ft

Refrigerators (L,P &B)

Set Point: 4°C to 15°C
Volume Range: 45L – 1395L
1.5 Cu.ft – 49.2 Cu.ft



-86 °C

-41 °C

-20 °C

4 °C

15°C



Mobile Ultra-Low Freezers

Set Point: -86°C to -20°C
Capacity: 27L



Passive Transport Boxes

Storage Temperature*: -80°C to +37°C
Volume Range: 1.73L – 44L
0.06 Cu.ft- 1.55 Cu.ft
Mobile version: 90L/3.18Cu.ft

*depends on the model. Volume ranges represent net volume (except for transport boxes). Pictures for representation only

Our Two Core Lines: Precision and Premium



45L /
1.5Cu.ft

PRECISION LINE

329L /
11.6Cu.ft

PREMIUM LINE

900L /
31.7Cu.ft

NET CAPACITY

Key features

- Lifetime warranty and corrosion-free cabinet
- Made of polypropylene cabinets delivering good resistance against moisture + offering robustness and flexural strength
- 4 layers of PMMA glass – lightweight and highly insulating
- High performing cooling system combined with low energy consumption
- Certified medical devices (Class I/II/IIa)
- End-to-end traceability through °B Connected monitoring solution (via DCU)

Key features

- Advanced control and monitoring solutions
- 7” touchscreen electronics/Electronic locking systems/NFC card locking
- Robust cabinet design including best possible opening and closing mechanism as well as hinges
- Innovative gaskets, frames and vacuum valves
- High performing cooling system combined with low energy consumption
- 5 layers of PMMA glass – lightweight and highly insulating
- Certified medical devices (Class I/II/IIa)
- End-to-end traceability through °B Connected monitoring solution

*All Ultra-Low Freezers belong to the Premium Line with a net volume varying from 217L to 900L

*Double-door units with a volume capacity of 1395L

Vaccine Cold Chain Solutions: For the safe storage and transport of vaccines



Vaccine Cold Chain



Solar Direct Drive Refrigerators & Freezers

Solar-powered vaccine refrigerators & freezers for safe storage of vaccines anywhere in the world especially in places with unreliable electricity



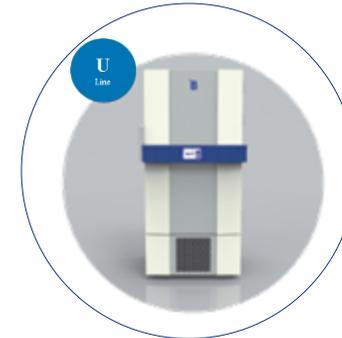
Refrigerators & Freezers

AC-powered vaccine refrigerators & freezers for use in demanding conditions such as hot and humid environments



Vaccine Transport Boxes

For the safe transport of vaccines or medicines from different storage centres to vaccination sites at temperatures between -86°C to 8°C



Ultra Low Freezers

For the safe storage of vaccines at ultra low temperatures down to -86°C



Refrigerated transport vehicle

For the safe transport of vaccines, pharmaceuticals or any other specimens at temperatures between 2°C - 8°C

Medical Refrigeration Solutions: For the safe and risk-free storage and transport of temperature-sensitive materials



Medical Refrigeration



Laboratory & Pharmacy Refrigerators

For the safe storage of samples, specimens, cultures, and other laboratory preparations at temperatures between +4°C and +15°C



Mobile Ultra-low temperature freezer

For the safe storage and transport of temperature sensitive specimens at temperatures between -86°C and -20°C. Powered via AC/DC



Laboratory Freezers

For the safe storage of laboratory products, samples, test materials, chemicals or reagents at temperatures below -20°C



Ultra Low Freezers

For the safe storage of human cells, tissues, and other laboratory samples at ultra-low temperatures between -86°C to -20°C

Blood Management Solutions: For the safe storage, processing and transport of blood and its derivatives

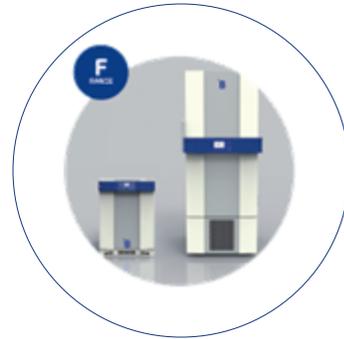


Blood Management Solutions



Blood Bank Refrigerators

For the safe storage of whole blood and blood components at temperatures between +2°C to +6°C



Plasma Storage Freezers

For safe storage of frozen blood plasma or blood components at temperatures below -27°C



Contact Shock Freezers

For the fast freezing of blood plasma to a core temperature of -30°C



Ultra Low Freezers

For the safe storage of blood components at ultra low temperatures down to -86°C



Transport Systems

For the safe transport of all blood components

Our solutions stop at the patient... wherever they are

100 +
Patents and counting...



U201

Health Centre Kit



TCW40R AC /
TCW80 AC



RCW1



Ultra 16 SDD



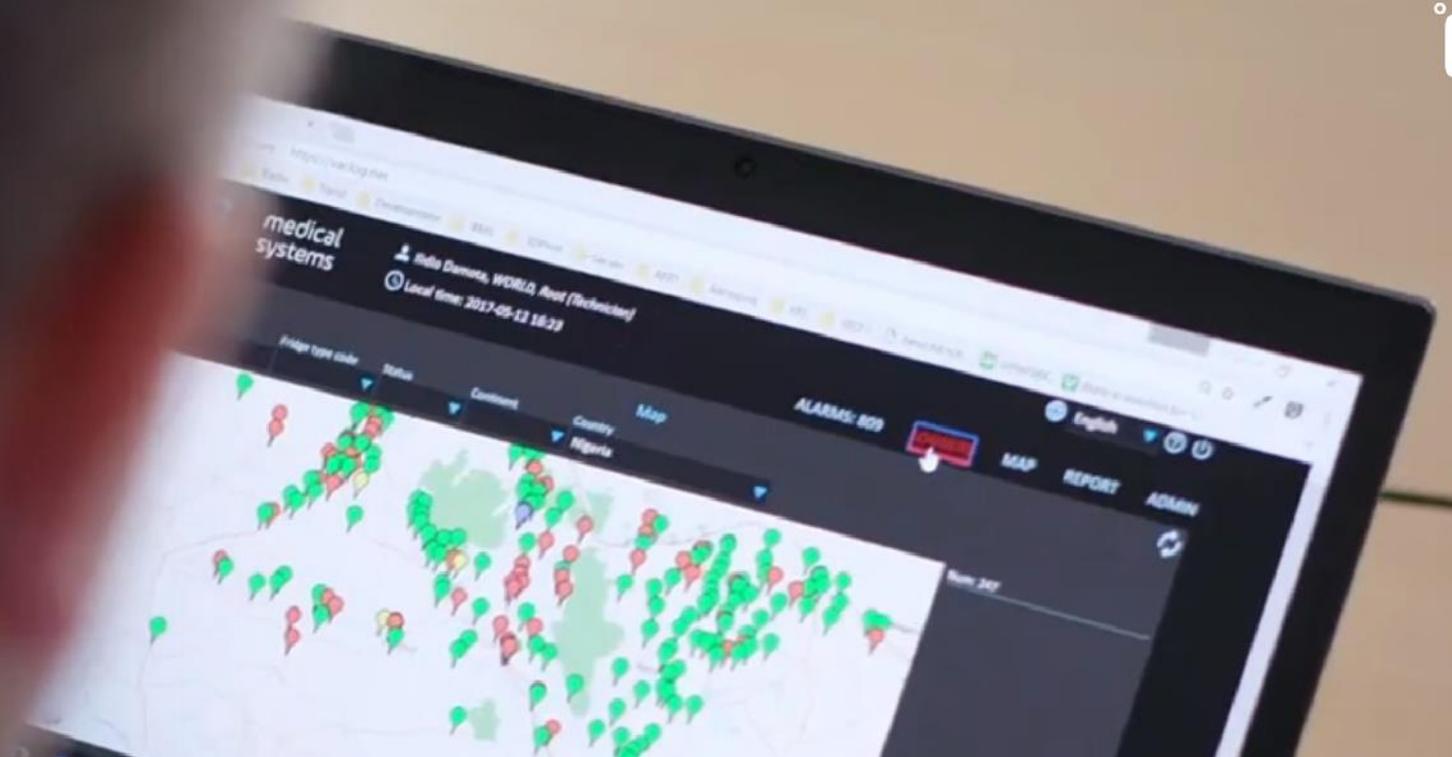
RVTV



RTMD



Our real-time monitoring systems ensures that products are monitored 24/7



RTMD
Remote Temperature Monitoring Device

°B Connected
Monitoring Software

GT MINI
Real-Time Monitoring Solution

°B Connected monitoring solutions



- ✓ Web-based interfaces for computers and mobile devices. On- premise solution
- ✓ Real-time monitoring of temperatures, events and activities
- ✓ Connected via Lan, Ethernet. Can be connected to non-B Med devices as well*
- ✓ Email, SMS alerts
- ✓ Data recording on a centralized database for long-term archiving and reports generation
- ✓ REST API to access raw data directly from the database in read only mode
- ✓ Compliant with technical controls of 21 CFR Part 11 regulation (subpart A and B)

The screenshot shows the °B connected web interface. At the top, there is a navigation bar with 'HOME', 'DASHBOARD', 'EXPORT', 'HISTORY', and 'SETTINGS'. Below the navigation bar is a search filter. The main content area displays a list of refrigerators under the heading 'REFRIGERATORS 7 / 1 SORT BY'. The list includes the following items:

Device ID	Status	Current Temp	Target Temp	Alerts	Model	Room	Serial
U701	Device disconnected	42.0°C	18.0°C	...	Premium	Show room	8130001
B901	Online	2.0°C	4.1°C	...	Premium	Show room	8360002
Training Room - Room Temperature (1)	Online	18.0°C	24.6°C	...	Sensor	Training Room	
Training Room - Room Temperature (2)	Online	18.0°C	23.5°C	...	Sensor	Training Room	
Training Room - Room Temperature (3)	Online	18.0°C	20.3°C	...	Sensor	Training Room	
Training Room - Room Temperature (4)	Online	18.0°C	24.4°C	...	Sensor	Training Room	
U901	Online	42.0°C	-86.8°C	...	Premium	Show room	8360001

* Using DCU/accessories

Robust relationships across the world



* Confidential. Strictly internal use only.

Global Humanitarian & Procurement Organizations



World Health Organization



Gavi
L'Alliance du Vaccin



unicef



Pan American Health Organization



RED CROSS



MEDECINS SANS FRONTIERES



PFSCM

Hospitals



CHL



Centre Hospitalier de Luxembourg



PBRD



CHC

GROUPE SANTÉ



AMERICAN HOSPITAL



AIIMS

All India Institute Of Medical Sciences



Chirec Hospital Group

Life Science and Pharma



GlaxoSmithKline



SANOFI



ADSCC
مرکز أبو ظبي للخلايا الجذعية
ABU DHABI STEM CELLS CENTER



novo nordisk



Dr.Reddy's



BAYER

Blood Establishments



EFS

ÉTABLISSEMENT FRANÇAIS DU SANG



Canadian Red Cross



Sanquin
Bloedvoorziening



BCA
Blood Centers of America



Finnish Red Cross



croix-rouge luxembourgeoise
Menschen helfen

Compliant with FDA, other leading regulations + one of the early adopters of EU MDR



*Certification varies by products

High focus on sustainability: Environmental friendly products and operations



Solar Powered Products



Uses green refrigerants



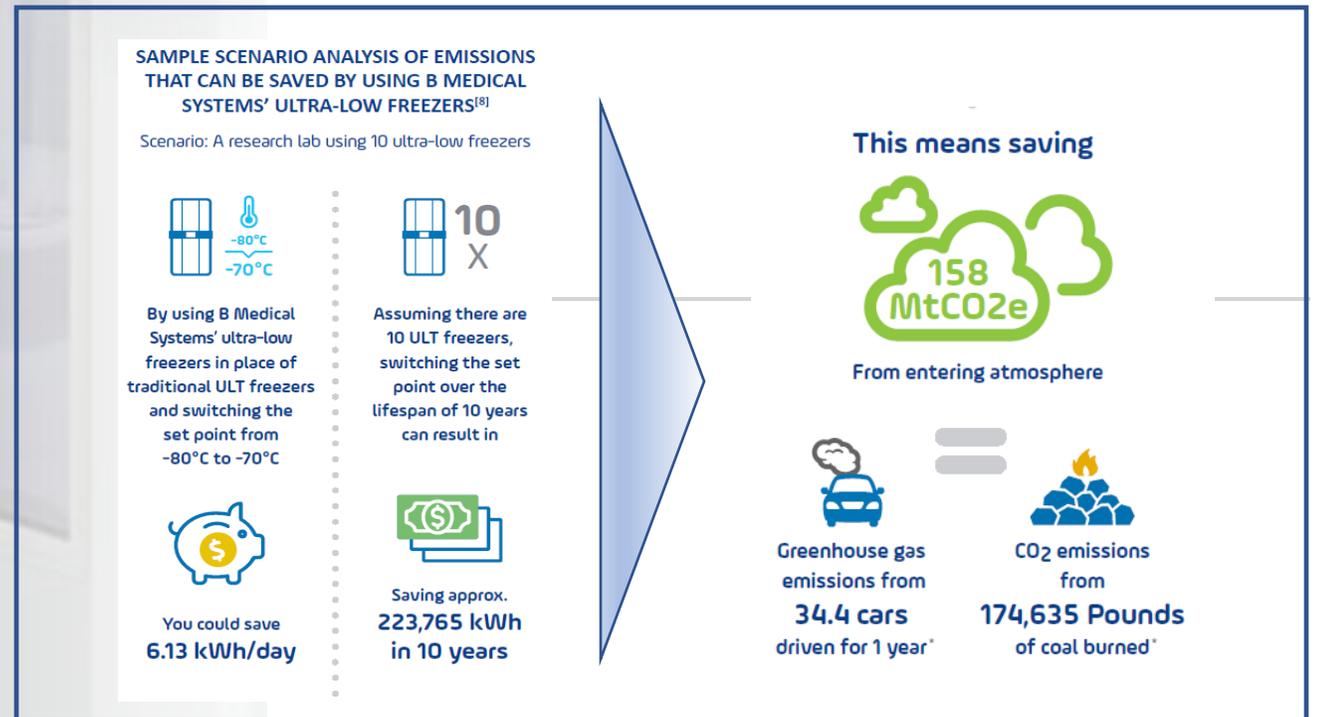
Highly Energy Efficient



Reliable, Multiuse and Sturdy



Certified by leading bodies

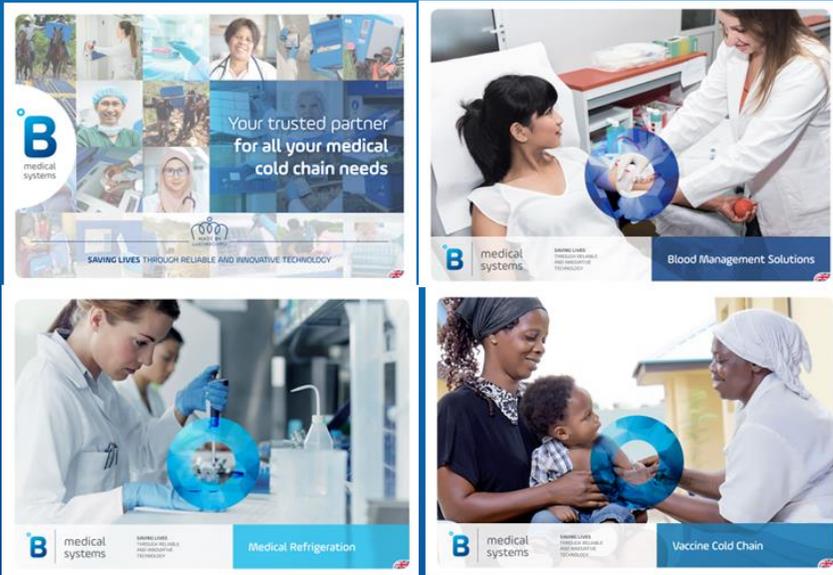


*⁸ Greenhouse Gas Equivalencies calculated using epa.gov calculator

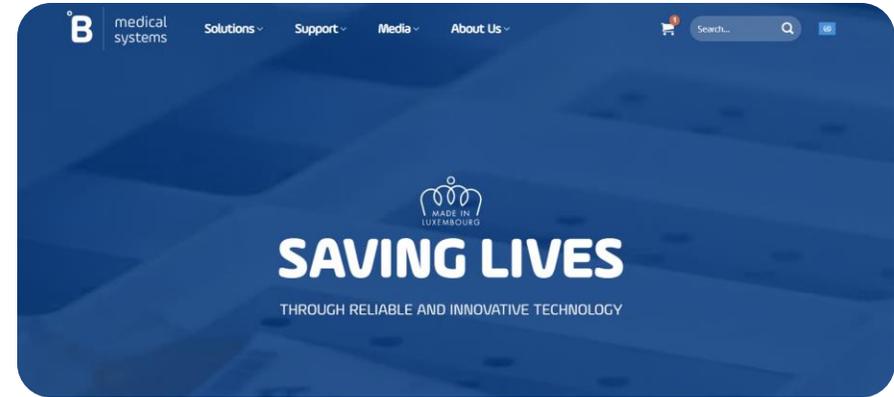
Where to find more info and how to engage with us



Brochure



B Medical Systems Website



White Papers





B | medical systems

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

