

B medical systems

From Azenta Life Sciences

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

Vaccine Cold Chain





Comprehensive range of storage and passive transport systems for the storage and distribution of vaccines and in general of all temperature-sensitive preparations under various climatic and technical conditions.

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.

RELIABLE SOLUTIONS FOR SAFE VACCINATION AROUND THE WORLD.

B Medical Systems is a leading manufacturer of vaccine cold chain equipment for large-scale programmes in emerging markets. We work closely with public health agencies, national governments and multilateral organizations to support the success of their vaccination campaigns.



SUMMARY

O4-05 The Challenge of Vaccination
For the safety and efficiency
of an immunization program

O6-19 Solar Direct Drive Refrigerators & Freezers
For rapid deployment and reliable response to store
vaccines or medicines under severe conditions
anywhere in the world!

20-29 Ice-Lined Refrigerators & Freezers
For use in demanding conditions
such as hot and humid environments

30-33 Vaccine Transport Boxes
For the safe transport of vaccines or medicines
from different storage centres to vaccination sites

For the safe storage of blood components and blood plasma, human cells, tissues, live virus vaccines, and other laboratory samples at ultra low temperatures down to -86°C

A complete line for an efficient cold chain

Vaccine Cold Chain

Solar Direct Drive Refrigerators & Freezers

SDD RANGE



Ice-Lined Refrigerators & Freezers

AC RANGE



Vaccine Transport Boxes

PASSIVE RANGE



Ultra-Low Freezers

U RANGE



Vials storage capacity (at 2ml)

Cryoboxes storage capacity



232 / 217

15500

155 (model H50)









U401	U501	U701	U901
478 / 454	634 / 602	791 / 751	949 / 900
34500	46000	57500	69000
345 (model H50)	460 (model H50)	575 (model H50)	690 (model H50)

The Challenge of Vaccination

For the safety and efficiency of an immunization program

In 1974, when the WHO launched the Expanded Programme on Immunization (EPI), only 5% of children were vaccinated against basic diseases.

Today more children than ever before are being reached with immunization which curently averts an estimated 2.5 million deaths every year in all age groups from diphteria, tetanus, pertussis (whopping cough), and measles. ... Nearly 20% of all deaths in children under 5 is vaccine preventable. But immunization coverage has still not realized its potential. Vaccine security is fundamental to meeting immunization goals.

For many countries, the delivery of safe injection practices and ensuring the quality of the vaccines is a significant challenge. A vaccine cold chain management, when implemented properly, can help overcome this challenge and enhance the safety and efficiency of an immunization program.

A good cold chain is indispensable for reducing vaccine waste and for maximizing the number of children vaccinated, even in the most deprived countries.

The effectiveness of vaccines is ensured, however, only if the specific storage conditions are maintained at each level of the cold chain, from the manufacturer to the child, through all the phases of storage and transport. (Global Immunization data December 2010, WHO and UNICEF homepage)

To answer all recommendations set up by the WHO, B Medical Systems has developed a comprehensive storage and transport concept to suite all stages of the vaccine cold chain even under difficult climatic and technical conditions.



BACKGROUND INFORMATION PQS CERTIFICATION:

The PQS system (Performance, Quality and Safety) is a WHO guideline for manufacturers of vaccine refrigerators, vaccine freezers and ice-pack freezers. The QSS group within WHO's Department of Immunization, Vaccines and Biologicals (IVB) provides technical advice and support aimed at achieving a reliable high quality vaccine cold chain for the world's immunization programmes and publishes performance specifications and verification protocols for cold chain and other immunization-related equipment and devices. These documents have been developed over the years in consultation with end-users, with industry and with testing laboratories and are based on a long-established and rigorous procedure for evaluating and pre-qualifying suitable equipment.

By selecting from the list of pre-qualified equipment, UN procurement agencies, governments and NGOs can be sure that they are purchasing products that are fit for purpose.







for every **\$1** invested into immunization an average **\$44** in net savings

1.5 million children could be saved every year by receiving appropriate vaccination

\$9,153 worth of vaccines can be protected by a proper functioning cold chain box

Our solutions for an efficient Vaccine Cold Chain

- Solar direct drive refrigerators and freezers that work straight from solar panels, without the need for batteries or regulators
- Ice-Lined refrigerators and freezers for use in demanding conditions such as hot and humid environments
- Vaccine transport boxes that ensure an unbroken cold chain, for transport periods of between 24 hours and 8 days
- Temperature data logger that allow real-time remote temperature monitoring over the Internet, plus temperature control alarms

In compliance with WHO guidelines





Designed for intensive use

Vaccine Cold Chain rotomoulded equipment from B Medical
Systems are especially designed for intensive use,
offering optimize ergonomy, maximize lifespan,
robustness and reliability to answer all needs
for an efficient vaccine cold chain.

CCEOP eligible equipment

B Medical Systems presents 7 products that are CCEOP eligible.

What is a CCEOP eligible product? A vaccine cold chain equipment validated by Gavi. Gavi's CCE Optimization Platform provides phased support to countries to improve their supply chain in the purchase, delivery, installation and training of high-performing CCE devices. The platform only invests in select equipment from the CCEOP technology guide- links with WHO PQS. All technology guide devices are from the WHO PQS, but not all WHO PQS prequalified equipment is platform eligible.

Solar Direct Drive Refrigerators & Freezers

B Medical Systems | SDD Range

13 models • Vaccine storage capacity 16 > 220 L • In compliance with WHO Guidelines I POS Certified

For rapid deployment and reliable response to store vaccines or medicines under severe conditions anywhere in the world!

The Solar Direct Drive solution consists of several vaccine refrigerators and ice-pack freezers working straight from solar panels without batteries and regulators. This solution provides a reliable cold chain for vitally important vaccines even in the most remote areas. The Solar Direct Drive solution uses the only energy source that never runs dry: our sun!









B Medical Systems Solar Direct Drive (SDD) Vaccine Cold Chain refrigerators provide enhanced performance and high reliability, leading to a sustainably lower Vaccine Wastage.









RTMD | Remote Temperature Monitoring Device



- Real time monitoring of temperature(s), lid openings & GPS position
- Includes a SIM chip with prepaid communication for the duration of the warranty period contractually agreed
- Crucial for the quality surveillance of the cold chain and monitoring of vaccines
- Rechargeable battery
- Worldwide remote monitoring & data access over WEB
- Only GSM network coverage is necessary to operate
- Google Maps positioning using integrated GPS module
- Alarms include temperature deviations and lid openings
- Alarms are sent by text messages or emails
- Works on both SDD and AC installations

Variations Solar Generator (optional)



G1 Solar panels (roof installation)

2 solar panels (200W) on fixed roof installation. This solution is easy to install and ideal for high sunshine levels. G1 is equipped with an anti-theft. Installation to be made by B Medical Systems certified agents.



BASIC TOOL KIT

Contains different basic tools as wrenches, screwdrivers, pencil, tape measure and protractor



G2 Adjustable solar panels (roof or ground installation)

2 adjustable solar panels (200W) for roof or ground installation. This solution optimizes the energy collection and enables the positioning anywhere. G2 is equipped with an anti-theft. Installation to be made by B Medical Systems certified agents.



PREMIUM TOOL KIT (optional)

Includes « Basic Tool Kit» and drilling equipment to fix solar generator on the roof, wall or pole

→ Also available as pole or wall mounted.

WHAT ARE THE REGULATIONS PUT IN PLACE?

WHO has put in place with its PQS a new performance and quality system for the vaccine cold chain equipment. PQS performance specification for:

- Refrigerator or combined refrigerator & ice-pack freezer: Compression cycle Solar Direct Drive without battery storage
- Specification reference: E003 / RF05.4
- Product verification protocol: E003 / RF05-VP.4

WHAT ARE THE MOST IMPORTANT CHARACTERISTICS FOR NEW PRODUCTS?

The development of a new, successful and SAFE product according to PQS requirements has to fulfill a number of defined parameters, the most important of those are:

- Hold over time: Time in hours during which all points in the vaccine compartment remain between +2°C and +8°C, at the maximum ambient temperature of the temperature zone for which the appliance is rated, after the power supply has been disconnected
- Cold life: Cold life is measured from the moment when the container lid is closed until the temperature of the warmest point in the vaccine storage compartment first reaches +10°C (after initially cooling to below +10°C during cooldown), at a constant ambient test temperature +43°C
- Autonomy: Time in days that a solar refrigerator, or combined refrigerator and ice-pack freezer, can maintain the vaccine load within the acceptable temperature range under low solar radiation conditions (e.g. rain)

B Medical Systems | SDD Range









The Ultra 16 SDD is a 16 L vaccine refrigerator for extensive bad weather periods



• Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
 - Vacuum Insulated Panels and Polyurethane foam
- A newly design lid closing recess that avoids the loss of cold air
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures: $+5^{\circ}\text{C}$ to $+43^{\circ}\text{C}$



Vaccine Refrigerator with extensive autonomy

- Vaccine storage capacity: 16 L
- Autonomy: 477 h 56 at +43°C
- Delivered with 2 storage wire baskets: facilitates the handling and storage management of the vaccines



Integrated electronics

- Electronics controller with integrated LED digital temperature monitoring and 2 USB-Chargers for mobile, tablet and others devices
- Simple and user-friendly "1 button" operation
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)

O Plug & Play installation

- Quick connector allows for "plug and play" installation, only one way works!
- Working straight from solar panels with no batteries and no regulator (length of cable: 25 meters each generator)
- Requests only one solar generator (2 x 200W / 25V panels)



User-friendly device

Device equipped with lockable compartment and 2 storage places for mobile and others devices.



Vaccine Refrigerator & Ice-pack Freezer

B Medical Systems | SDD Range









The TCW 15 SDD is the first small capacity health center ice-lined refrigerator and ice-pack freezer > Best autonomy times in the market



Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Triple silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures: +5°C to +43°C



• Vaccine Refrigerator with ice-packs holders

- Vaccine storage capacity: 16 L
 - Autonomy: 84 h at +43°C
- Equipped with 4 ice-packs holders for quick storage of 4 ice-packs at 0.6 L
- Delivered with 2 storage wire baskets: facilitates the handling and storage management of the vaccines
 - Automatic drain water evaporation



Integrated electronics

- Electronics controller, at easy access level, in the top of the lid, with integrated LED digital temperature monitoring
- Simple and user-friendly "1 button" operation
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)

O Plug & Play installation

- Quick connector allows for "plug and play" installation, only one way works!
- Working straight from solar panels with no batteries and no regulator (length of cable: 25 meters each generator)
- Requests only one solar generator (2 x 200W / 25V panels)









TCW 15R SDD | Vaccine Refrigerator

- PQS

 Vaccine sto
 Autonomy
- Vaccine storage capacity: 16 L
 - Autonomy: 81 h 52 at +43°C
 - Hold over time: 87 h 48 at +43°C

50-75% of the problems to reach the "5th child" could be solved through cold chain improvements. "

Vaccine Refrigerator & Ice-pack Freezer

B Medical Systems | SDD Range











The TCW 40 SDD is a combination of a solar direct drive vaccine & medicine refrigerator and ice-pack freezer > Best autonomy times in the market



Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Triple silicon gaskets (replaceable) and lockable clasps ensure tight sealing
- Designed for tropical temperatures: +5°C to +43°C



Vaccine Refrigerator with ice-packs holders

- Vaccine storage capacity: 36 L
- Autonomy: 81 h 54 at +43°C
- Hold over time: 93 h 24 at +43°C
- Equipped with 8 ice-packs holders for quick storage of 8 ice-packs at 0.6 L
- Delivered with 1 storage wire basket: facilitates the handling and storage management of the vaccines



Integrated electronics

- Electronics controller with integrated LED digital temperature monitoring
- · Simple and user-friendly "1 button" operation
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)

Plug & Play installation

- · Quick connector allows for "plug and play" installation, only one way works!
- · Working straight from solar panels with no batteries and no regulator (length of cable: 25 meters each generator)
- · Requests only one solar generator (2 x 200W / 25V panels)







TCW 40R SDD | Vaccine Refrigerator





- Vaccine storage capacity: 36 L
- Autonomy: 81 h 54 at +43°C
- Hold over time: 93 h 24 at +43°C



TFW 40 SDD | Ice-pack Freezer





- Ice-pack storage capacity: 11.24 kg (20 waterpacks)
- Ice-pack freezing capacity: 2.16 kg / 24 h at +43°C
- Autonomy: 120 h at +43°C



B Medical Systems | SDD Range











The TCW 80 SDD is a solar direct drive vaccine & medicine refrigerator

> Robust vaccine storage solution ideal for remote areas



• Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures:
 +5°C to +43°C



Vaccine Refrigerator

- Vaccine storage capacity: 80.5 L
 - Autonomy: 72 h 21 at +43°C
- Delivered with 4 storage wire baskets: facilitates the handling and storage management of the vaccines



Integrated electronics

- Electronics controller with integrated LED digital temperature monitoring
- Simple and user-friendly "1 button" operation
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)

O Plug & Play installation

- Quick connector allows for "plug and play" installation, only one way works!
- Working straight from solar panels with no batteries and no regulator (length of cable: 25 meters each generator)
- Requests only one solar generator (2 x 200W / 25V panels)







Vaccine Refrigerator & Ice-pack Freezer

B Medical Systems | SDD Range











The TCW 120 SDD is a combination of a solar direct drive vaccine & medicine refrigerator and ice-pack freezer > Best autonomy times in the market



• Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures: +5°C to +43°C



Vaccine Refrigerator and Ice-pack Freezer

- Vaccine storage capacity: 120 L
- Ice-pack storage capacity: 22 x 0.6 L
 - Ice-pack freezing capacity: >1.6 kg / 24 h at +43°C
 - Autonomy: 82 h 05 at +43°C
 - Hold over time: 82 h 05 at +43°C
- Delivered with 22 ice-packs at 0.6 L and 4 storage wire baskets: facilitates the handling and storage management of the vaccines



Integrated electronics

- Electronics controller with integrated LED digital temperature monitoring
- Simple and user-friendly "1 button" operation
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)
- Works at a preset setpoint of +5°C (Refrigerator) and -20°C (Freezer) (cannot be changed by the user)

O Plug & Play installation

- Quick connector allows for "plug and play" installation, only one way works!
- Working straight from solar panels with no batteries and no regulator (length of cable: 25 meters each generator)
- Requests two solar generators (4 x 200W / 25V panels)





Vaccine Refrigerator & Ice-pack Freezer

B Medical Systems | SDD Range









The TCW 2000 SDD is double compartment solar direct drive vaccine & medicine refrigerator and ice-pack freezer with two cooling systems > Best multi-purpose solution



Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing



Integrated electronics

- 2 electronics controllers with integrated digital temperature monitoring
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)





Vaccine Refrigerator and Ice-pack Freezer

- · Vaccine storage capacity: 99 L
- Ice-pack storage capacity: 14.4 kg
 - Ice-pack freezing capacity: 2.4 kg / 24 h at +32°C
 - Autonomy: 85 h 24 at +32°C
 - Hold over time: 100 h at +32°C
- Delivered with 16 ice-packs at 0.6 L and 4 storage wire baskets: facilitates the handling and storage management of the vaccines



- Quick connector allows for "plug and play" installation, only one way works!
- Working straight from solar panels with no batteries and no regulator (length of cable: 25 meters each generator)
- Requests two solar generators (4 x 200W / 25V panels)



This device is also available for tropical temperatures: $+5^{\circ}$ C to $+43^{\circ}$ C

TCW 2043 SDD | Vaccine Refrigerator & Ice-pack Freezer





- Vaccine storage capacity: 70 L
- Ice-pack storage capacity: 10.5 kg
- Ice-pack freezing capacity: 2.5 kg / 24 h at +43°C
- Autonomy: 73 h 54 at +43°C
- Hold over time: 79 h at +43°C
- Delivered with 2 wire baskets

B Medical Systems | SDD Range









The TCW 3000 SDD is large capacity solar direct drive vaccine & medicine refrigerator





• Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing



Integrated electronics

- Electronics controller with integrated digital temperature monitoring
- · Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)





O Vaccine Refrigerator

- Vaccine storage capacity: 156 L
 - Autonomy: 86 h 56 at +32°C
- Hold over time: 94 h 05 at +32°C
- Delivered with 5 storage wire baskets: facilitates the handling and storage management of the vaccines



- · Quick connector allows for "plug and play" installation, only one way works!
- Working straight from solar panels with no batteries and no regulator (length of cable: 25 meters each generator)
- · Requests only one solar generator (2 x 200W / 25V panels)



This device is also available for tropical temperatures: +5°C to +43°C

TCW 3043 SDD | Vaccine Refrigerator



- Vaccine storage capacity: 89 L
- Autonomy: 116 h 41 at +43°C
- Hold over time: 124 h 48 at +43°C
- Delivered with 5 wire baskets: facilitates the handling and storage management of the vaccines

B Medical Systems | SDD Range











The TCW 4000 SDD is the largest rotomoulded solar direct drive refrigerator in the world with a net vaccine storage capacity of 220 L > Very low energy consumption



• Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures:
 +5°C to +43°C



O Vaccine Refrigerator

- Vaccine storage capacity: 220 L
 - Autonomy: 91 h 16 at +43°C
- Delivered with 6 storage wire baskets: facilitates the handling and storage management of the vaccines
- Equipped with the new automatic drain water evaporation



Integrated electronics

- Electronics controller with integrated LED digital temperature monitoring
- Simple and user-friendly "1 button" operation
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)
- Works at a preset setpoint of +5°C (cannot be changed by the user)



- Quick connector allows for "plug and play" installation, only one way works!
- Working straight from solar panels with no batteries and no regulator (length of cable: 25 meters each generator)
- Requests only one solar generator (2 x 200W / 25V panels)







Energy Harvesting System

B Medical Systems | SDD Range







The Health Center Kit is the Energy Harvest Control system, which charges automatically a battery with the excess of available energy from our solar generators.



O Plug & Play installation

Allows to link in between SDD models and solar generator by quick connectors "plug and play", only one way works!



Integrated electronics

- Electronic controller with automatic energy management enables to power essential devices operating on direct current
- Connection interfaces: 2 USB outputs (5W each) and 1 cigarette lighter socket (20W)
 - Rechargeable 27Ah battery with a life cycle of 5 years



O Designed for intensive use

- Independent unit made of rotomoulded polyethylene: extremely robust for an intensive and mobile use
- Wheels for easy moves
- Theft protection

User-friendly device

- Rechargeable LED lights (2 pcs) for mobile use
- Device equipped with lockable compartment and 2 storage places for mobile and others devices
- Mobile ceiling fan



The Health Center Kit is a device intended to detect excess of energy produced by a solar generator, switching its outputs to drive small devices by DC voltage. An integrated battery provides the possibility to store energy and to load devices also during night time.















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TCW 15 SDD

TCW 15R SDD

TCW 40 SDD

TCW 40R SDD

Function		Vaccine Refrigerator	Vaccine Refrigerator & Ice-pack Freezer	Vaccine Refrigerator	Vaccine Refrigerator & Ice-pack Freezer	Vaccine Refrigerator	
Climate zone							
Vaccine storage	capacity (I)		16			36	
lce-pack storag	e capacity	-	4 x 0.6 L (in ice-packs holders)	-	3.6 kg		
lce-pack freezin	g capacity	-	1.97 kg / 24 h	-	1.89 kg / 24 h	-	
Autonomy time (+2°C to +8°C)		477 h 56	84 h	81 h 52	81 h 54	81 h 54	
Hold over time	(+2°C to +10°C)	-	-	87 h 48	93 h 24	93 h 24	
Cool down time	,	312 h	35 h	36 h	36 h	36 h	
Dimensions	External	1120 x 840 x 780	950 x 730 x 730		900	x 1030 x 780	
HxWxD	Shipping	1260 x 940 x 878	1088	x 770 x 778	1060	60 x 1040 x 800	
Shipping weigh	t (kg)	196	95	94	126	129	
Number & type	of solar panels			2 x 200 W / 25 V			
Energy	Stable running	0.34 KWh	0.49 KWh	0.43 KWh	0.57 KWh	0.57 KWh	
consumption	Cool down	0.38 KWh	0.50 KWh	0.43 KWh	0.67 KWh	0.67 KWh	
/ 24 h	During freezing	-	0.69 KWh	-	0.69 KWh	-	
PQS code		E003 / 090	E003 / 077	E003 / 067	E003 / 042	E003 / 068	
CCEOP-eligible			-			Yes	
Freeze protectio	on			Grade A			













TCW 80 SDD TFW 40 SDD

Function		Vaccine Refrigerator		Vaccine Refrigerator & Ice-pack	Freezer	Ice-pack Freezer		
Climate zone		Hot	zone (+43°C)	Temperate zone (+32°C)		Hot zone (+43°C)		
Vaccine storage	capacity (I)	80.5	120	99	70	-		
ce-pack storag	e capacity	-	22 x 0.6 L	14.4 kg	10.5 kg	11.24 kg		
ce-pack freezin	g capacity	-	> 1.6 kg / 24 h	2.4 kg / 24 h	2.5 kg / 24 h	2.16 kg / 24 h 7.2 kg o 12 icepacks		
Autonomy	+2°C to +8°C	72 h 21	82 h 05	85 h 24	73 h 54	-		
ime	WHO standard	-	-	-	-	120 h		
Hold over time (+2°C to +10°C)		-	82 h 05	100 h	79 h	-		
Cool down time		192 h	168 h	12 h 56 h		313 h		
Dimensions	External	890 x 1023 x 778	910 x 1620 x 790	910 x 1270 x 780		900 x 1030 x 780		
l x W x D mm)	Shipping	1060 x 1040 x 800	1040 x 1660 x 805	1030 x 1300 x 800		1060 x 1040 x 800		
Shipping weigh	t (kg)	112	187	161 166		119		
Number & type	of solar panels	2 x 200 W / 25 V		4 x 200 W / 25 V		2 x 200 W / 25 V		
nergy	Stable running	0.60 KWh	1.15 KWh	0.78 KWh	0.73 KWh	0.59 KWh		
onsumption	Cool down	0.58 KWh	1.31 KWh	0.74 KWh	0.79 KWh	0.59 KWh		
′ 24 h	During freezing	-	1.38 KWh	0.96 KWh	1.05 KWh	0.64 KWh		
PQS code		E003 / 121	E003 / 124	E003 / 035	E003 / 043	E003 / 073		
CCEOP-eligible			Yes	-		Yes		
Freeze protection	on			Grade A		-		



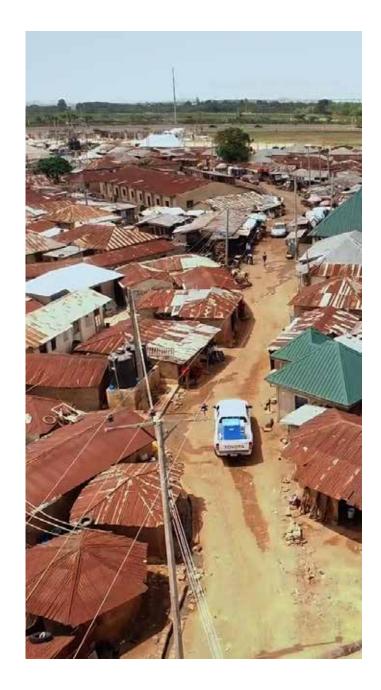






TCW 3000 SDD TCW 3043 SDD TCW 4000 SDD

Function			Vaccine Refriger	rator	
Climate zone		Temperate zone (+32°C)		Hot zone (+43°C)	
Vaccine storag	e capacity (I)	156	89	220	
Autonomy time	e (+2°C to +8°C)	86 h 56	116 h 41	91 h 16	
Hold over time	(+2°C to +10°C)	94 h 05	124 h 48	-	
Cool down time	е	36 h	145 h	312 h	
Dimensions	External	910 x	1270 x 780	915 x 1625 x 780	
H x W x D (mm)	Shipping	1030 x	1300 x 800	1040 x 1660 x 805	
Shipping weigh	nt (kg)	140	171	188	
Number & type	e of solar panels		2 x 200 W / 25	5 V	
Energy	Stable running	0.25 KWh	0.68 KWh	0.83 KWh	
consumption / 24 h	Cool down	0.34 KWh	0.68 KWh	0.84 KWh	
PQS code		E003 / 030	E003 / 045	E003 / 093	
CCEOP-eligible			-	Yes	
Freeze protecti	on		Grade A		



Ice-Lined Refrigerators & Freezers

B Medical Systems | AC Range

7 models • Vaccine storage capacity 36 > 240 L • In compliance with WHO Guidelines | POS Certified*



For use in demanding conditions such as hot and humid environments.

This range consists of several ice-lined refrigerators and freezers for national and regional centres provided with a supply of electric power (minimum 8 h / day).

Made of rotomoulded polyethylene, these models are designed to deal with the demanding conditions found in hot and humid environments and offer the durability and robustness required for intensive use, as well as heavy-duty insulation and physical resilience.

With Vaccine Cold Chain equipment from B Medical Systems, you benefit from dedicated devices that combine outstanding efficiency and low TCO. One results from the other – the access to life-saving vaccination depends on

safe storage. This is why organizations all over the world rely on robust equipment from B Medical Systems for efficient vaccination campaigns for decades. These efforts from UNICEF. WHO. Gavi. Governments and others have resulted in saving millions of lives saved around the world.

B Medical Systems | AC Range









The TCW 40R AC is a vaccine refrigerator with integrated voltage stabilization and RTMD

> One single device worldwide for all voltages and frequencies



Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Triple silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures: +5°C to +43°C



O Vaccine Refrigerator

- Vaccine storage capacity: 36 L
- Hold over time: 110 h at +43°C
- Delivered with 1 storage wire basket: facilitates the handling and storage management of the vaccines



Integrated electronics

- Electronics controller with integrated LED digital temperature monitoring
- Simple and user-friendly "1 button" operation
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)
- Works at a preset setpoint of +5°C (cannot be changed by the user)

- Integrated Remote Temperature Monitoring Device (RTMD), offering real-time worldwide remote monitoring, data access over WEB and GPS position
- Fully integrated automatic voltage stabilization solution (for any voltage in between 90-290 V) and a protective relay
- Equipped with innovative voltage stabilisers permitting the use of this model in areas of the world with unstable electricity supply
- 5 years international warranty for all parts and labour







B Medical Systems | AC Range









The TCW 80 AC is a vaccine refrigerator with integrated voltage stabilization and RTMD > One single device worldwide for all voltages and frequencies



• Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures: +5°C to +43°C



Vaccine Refrigerator

- Vaccine storage capacity: 80.5 L
- Hold over time: 72 h 09 at +43°C
- Delivered with 4 storage wire baskets: facilitates the handling and storage management of the vaccines



Integrated electronics

- Electronics controller with integrated LED digital temperature monitoring
- Simple and user-friendly "1 button" operation
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)
- Works at a preset setpoint of +5°C (cannot be changed by the user)

- Integrated Remote Temperature Monitoring Device (RTMD), offering real-time worldwide remote monitoring, data access over WEB and GPS position
- Fully integrated automatic voltage stabilization solution (for any voltage in between 90-290 V) and a protective relay
- Equipped with innovative voltage stabilisers permitting the use of this model in areas of the world with unstable electricity supply
- 5 years international warranty for all parts and labour





Vaccine Refrigerator & Ice-pack Freezer

B Medical Systems | AC Range









The TCW 120 AC is a vaccine refrigerator and ice-pack freezer with integrated voltage stabilization and RTMD > One single device worldwide for all voltages and frequencies



• Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures:
 +5°C to +43°C



Vaccine Refrigerator and Ice-pack Freezer

- Vaccine storage capacity: 120 L
- Ice-pack storage capacity: 22 x 0.6 L
 - Ice-pack freezing capacity: >1.6 kg / 24 h at +43°C
 - Hold over time: 73 h 54 at +43°C
- Delivered with 22 ice-packs at 0.6 L and 4 storage wire baskets: facilitates the handling and storage management of the vaccines



Integrated electronics

- Electronics controller with integrated LED digital temperature monitoring
- Simple and user-friendly "1 button" operation
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)
- Works at a preset setpoint of +5°C (Refrigerator) and -20°C (Freezer) (cannot be changed by the user)

- Integrated Remote Temperature
 Monitoring Device (RTMD), offering
 real-time worldwide remote monitoring,
 data access over WEB and GPS position
- Fully integrated automatic voltage stabilization solution (for any voltage in between 90-290 V) and a protective relay
- Equipped with innovative voltage stabilisers permitting the use of this model in areas of the world with unstable electricity supply
- 5 years international warranty for all parts and labour





Vaccine Refrigerator & Ice-pack Freezer

B Medical Systems | AC Range



The TCW 2000 AC is double compartment vaccine & medicine refrigerator and ice-pack freezer with two cooling systems > Designated for urban health centres and district stores



Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures: +10°C to +43°C



Vaccine Refrigerator and Ice-pack Freezer

- Vaccine storage capacity: 60 L
- Ice-pack storage capacity: 20 x 0.6 L
 - Ice-pack freezing capacity: 10 kg / 24 h at +43°C
 - Hold over time: 39 h 24 at +43°C
- Delivered with 24 ice-packs at 0.6 L and 4 storage wire baskets: facilitates the handling and storage management of the vaccines



• Integrated electronics

- 2 electronics controllers with integrated digital temperature monitoring
- Temperature monitoring maintained in case of system failure



- The refrigerator part has an ice bank inside the cabinet. The ice bank consists of frozen ice-packs during its operation. During periods of system failure and load procedures, the ice bank acts as cold storage to protect the vaccines
- Equipped with 1 voltage protector
- Can be purchased with Remote Temperature Monitoring Device (RTMD), offering real-time worldwide remote monitoring, data access over WEB and GPS position



Vaccine Refrigerator or Vaccine/Ice-pack Freezer

B Medical Systems | AC Range



The TCW 3000 AC is large capacity vaccine refrigerator or vaccine/Ice-pack Freezer

> Multimode: either a vaccine refrigerator, a vaccine freezer or an ice-pack freezer



Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures:
 +5°C to +43°C



Vaccine Refrigerator or Vaccine / Ice-pack Freezer

- Vaccine storage capacity: 150 L
- Ice-pack storage capacity: 187 x 0.6 L
 - Hold over time: 53 h 10 at +43°C (Refrigerator) 3 h 55 at +43°C (Freezer)
- Delivered with 36 ice-packs at 0.6 L and 5 storage wire baskets: facilitates the handling and storage management of the vaccines



Integrated electronics

- Electronics controller with integrated digital temperature monitoring
- Temperature monitoring maintained in case of system failure



Special features

- The TCW 3000 AC can function as ice-lined vaccine refrigerator at a preset setpoint of +5°C, or as vaccine / ice-pack freezer at a preset setpoint of -20°C (cannot be changed by the user - service technician required)
- Equipped with 1 voltage protector
- Can be purchased with Remote Temperature Monitoring Device (RTMD), offering real-time worldwide remote monitoring, data access over WEB and GPS position



In 2014 and 2015, Pakistan was forced to discard US\$3.4 million in pentavalent vaccines when vaccine vial monitors indicated exposure to excessively high temperatures.

Ice-pack Freezer

B Medical Systems | AC Range





The TFW 3000 AC is the first large rotomoulded ice-pack freezer, designed for freezing and storing ice-packs in tropical temperature zones > Very low energy consumption



• Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures: +5°C to +43°C



O Ice-pack Freezer

- Ice-pack storage capacity: 162 x 0.6 L
 - Ice-pack freezing capacity:
 32.4 kg / 24 h at +43°C
- Delivered with 54 ice-packs at 0.6 L and 6 storage wire baskets



Integrated electronics

- Electronics controller with integrated digital temperature monitoring
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R290)
- Works at a preset setpoint of -16°C (cannot be changed by the user)



B Medical Systems | AC Range







The TCW 4000 AC is the largest rotomoulded ice lined refrigerator in the world with a net vaccine storage capacity of 240 L > Very low energy consumption



O Highest insulation value

- Rotomoulded body construction: rust free and extremely robust
- 100mm PU foam insulation guarantees highest possible hold over time
- Double silicon gaskets (replaceable) and lockable clasps ensure tight sealing
 - Designed for tropical temperatures: +5°C to +43°C



Vaccine Refrigerator

- Vaccine storage capacity: 240 L
- Hold over time: 77 h 18 at +43°C
- Delivered with 6 storage wire baskets: facilitates the handling and storage management of the vaccines
- Equipped with the new automatic drain water evaporation



Integrated electronics

- Electronics controller with integrated LED digital temperature monitoring
- Simple and user-friendly "1 button" operation
- Temperature monitoring maintained in case of system failure
- Green technology: very low power consumption and environmentally friendly refrigerant (R600a)
- Works at a preset setpoint of +5°C (cannot be changed by the user)



Special features

Can be purchased with Remote Temperature Monitoring Device (RTMD), offering realtime worldwide remote monitoring, data access over WEB and GPS position















TCW 40R AC

TCW 80 AC

TCW 120 AC

TCW 2000 AC

Function		Vacc	ine Refrigerator	Vaccine Refrige	erator & Ice-pack Freezer
Climate zone			Hot a	zone (+43°C)	
Vaccine storage	e capacity (I)	36	80.5	120	60
ce-pack storag	ne capacity	-	-	22 x 0.6 L	20 x 0.6 L
ce-pack freezir	ng capacity	-	-	> 1.6 Kg / 24 h	10 kg / 24 h
Hold over time (+2°C to +10°C)		110 h	110 h 72 h 09 73		39 h 24
Dimensions	External	888 x 1022 x 778	892 x 1020 x 783	910 x 1620 x 790	910 x 1270 x 780
H x W x D 'mm)	Shipping	104	0 x 1060 x 800	1040 x 1660 x 805	1030 x 1300 x 800
Shipping weigh	it (kg)	126	111	188	131
Operating volto	age range		110-240 V - 50/60 Hz		230 V - 50 Hz 115 V - 60 Hz
nergy	Stable running	0.51 KWh	0.47 KWh	1.55 KWh	1.87 KWh
onsumption	Cool down	0.76 KWh	0.60 KWh	1.07 KWh	4.34 KWh
' 24 h	During freezing	-	-	1.41 KWh	1.95 KWh
PQS code		E003 / 100	E003 / 101	E003 / 123	-
CCEOP-eligible			Yes		-
reeze protecti	on		(Grade A	



Iceliners





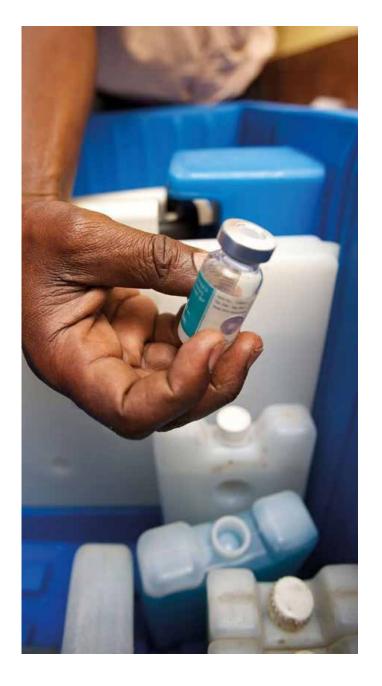


TCW 3000 AC

TFW 3000 AC

TCW 4000 AC

Function		Vaccine Refrigerator or Vaccine / Ice-pack Freezer	Ice-pack Freezer	Vaccine Refrigerator
Climate zone			Hot zone (+43°C)	
Vaccine storage	capacity (I)	150	-	240
lce-pack storag	e capacity	-	162 x 0.6 L	-
ce-pack freezing capacity		-	32.4 kg / 24 h	-
Hold over time	(+2°C to +10°C)	53 h 10 / 3 h 55*	-	77 h 18
Dimensions	External	910 x 12	270 x 780	915 x 1625 x 780
H x W x D mm)	Shipping	1030 x 13	1040 x 1660 x 805	
Shipping weigh	t (kg)	135	126	183
Operating volto	age range	230 V - 50 Hz 110 V - 60 Hz		/ - 50/60 Hz / - 60 Hz
Energy	Stable running	1.37 / 3.83* KWh	2.15 KWh	0.85 KWh
consumption / 24 h	Cool down	1.32 / 3.91* KWh	2.20 KWh	1.24 KWh
PQS code		-	E003 / 071	E003 / 066
CCEOP-eligible		-	,	/es
Freeze protection	on	Grade A	-	Grade A



Vaccine Transport Boxes

B Medical Systems | Passive Range

6 models • Volume 2.2 > 44 L • According to ADR | RID | IMDG | ICAO-TI | IATA-DGR • In compliance with WHO Guidelines | POS Certified*



For the safe transport of vaccines or medicines from different storage centres to vaccination sites.

Designed for transporting vaccines from different storage centres to the various vaccination sites (regional centres, health centres or as part of vaccination campaigns), these passive transport containers ensure an unbroken cold chain for transport periods between 24 hours and 8 days.

This range consists of six passive transport systems and are ideal for intensive use with many transport applications, even under difficult climatic conditions. These passive 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).

DECLARATION OF CONFORMITY (ADR / RID /IMDG / ICAO-TI / IATA-DGR)

- European agreement concerning the international carriage of dangerous goods by road (ADR) and by railway (RID), directive 2008 / 68 / CE
- European agreement concerning the international carriage of dangerous goods by sea transport (IMDG), directive 2002 / 84 / CE
- International agreement for air transport (ICAO-TI / IATA-DGR)

RCW 2 / 4 / 12 may contain goods of packing groups I, II and III.

RCW 8 / 25 may contain goods of packing groups II and III.

Studies have shown that cold chains in many countries are unreliable, and that vaccines are at risk of exposure to damaging temperature.











Designed for intensive use

- The special transport boxes, made from rotationally moulded polyethylene (a literally indestructible synthetic), feature an extraordinarily sturdy casing that is almost impervious to external forces, e.g. caused by bumps and falls, whose sturdiness has been proven in drop tests
- The corrosion free material offers easier and safer handling and is light weight. All transport systems can easily and thoroughly be cleaned and disinfected with conventional disinfectants. There are no inaccessible corners or areas inside the transport systems
- The clasps can be sealed or equipped with locks and are therefore protected against unauthorised access during transport
- RCW 1 / 2 / 4 / 8 are very easy to handle thanks to their adjustable shoulder strap and their light weight
 - Designed for tropical temperatures: +5°C to +43°C



PCM packs - heat accumulation elements, containing a so-called phase change material (PCM at +5°C and -30°C) and Dry Ice (at -80°C) are available for long-term, temperature controlled transport. The stored product will therefore remain at a near constant temperature for a specific period of time, without requiring active temperature control.







Highest insulation value

- The polyurethane foam injected into the double walls of these transport systems is free of CFC and HCFC and ensure optimum insulation and protection of quality of the transported goods, especially with longer transport times
- Due to the outer casing's self-insulation against the environment, the B Medical Systems transport systems maintain a stable temperature even at higher ambient temperatures



Special features I RCW 1

- The RCW 1 is the first long range vaccine carrier which complies to current WHO draft freeze protection specifications, and is perfectly suited for the transport of precooled vaccines and vials. It is easy to handle and can be comfortably carried thanks to its shoulder trap and optional back-pack for longer walks or motorbike rides. A standard electronic thermometer with integrated digital display informs always about vaccine temperature
- Its internal vaccine storage compartment and its vaccine vial holder with indentations (to hold open vaccine vials), protect the temperature-sensitive materials against freezing and ensure optimal temperature conditions























		IA	ı	1
π	L	VI	J	

RCW 2

RCW 4

RCW 8

RCW 12

RCW 25

Cooling systen	1				Passive		
Climate zone				Hot	zone (+43°C)		
Constant and	<i>(</i> 0		4.0		20		
Gross volume		6.5	1.9	8	20	24	44
Vaccine storag	ie capacity (I)	1.73	0.92	3.61	7.05	9.23	20.66
Required Ice-p	ack (for vaccine)	3 x 0.6 L	2 x 0.3 L	1 x 0.6 L + 6 x 0.3 L	10 x 0.6 L + 2 x 0.3 L	14 x 0.6 L	24 x 0.6 L
Cold life (up to	+10°C) at +43°C	32 h 07	-	30 h 18	57 h 54	114 h 54	134 h 36
Cool life (up to +20°C) at +43°C		-	-	6 h 42	12 h	26 h 24	34 h 24
Warm life (down to 0°C) at -20°C		<u>-</u>	-	12 h 54	21 h 36	40 h 54	49 h 30
Dimensions	External	430 x 347 x 281	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
HxWxD	Inner	208 x 223 x 139	125 x 190 x 80	186 x 260 x 156	245 x 460 x 180	270 x 340 x 260	264 x 496 x 334
(mm)	Shipping	460 x 356 x 295	230 x 285 x 160	380 x 320 x 300	470 x 610 x 310	530 x 570 x 490	530 x 730 x 570
	Net - empty	4.8	1.2	3.1	6.8	11.7	15.9
Weight (kg)	Gross - fully stocked	7.6	2.3	7.3	16.4	23.3	38.9
	Shipping	7	2	4	10	17	23
Insulation thickness (polyurethane)		51-116 mm	30 mm	23-27 mm	50-60 mm	90-105 mm	90-105 mm
PQS code		E004 / 059	-	E004 / 002	E004 / 003	E004 / 004	E004 / 005

CCINE TRANSPORT BOXES the safe transport of vaccines or medicines from different storage centres to vaccinati

For long-term, temperature controlled transport

B Medical Systems RCW 25 | PCM & Dry-Ice

B Medical Systems PCM are heat accumulation elements, containing a so-called phase change material (PCM). The PCM stores latent heat at the required temperature at phase change (liquid / solid). The stored product will therefore remain at a near constant temperature for a specific period of time, without requiring active temperature control. The Eutectic Cooling Elements are available in 2 types, PCM+5 and PCM-30, and must be charged for the specified temperature prior to each use.

PCM +5°C PCM -30°C

Load Volume		20 L		20 L				
РСМ Туре		+5°C		-30°C				
PCM Color		Blue		Orange				
Number of PCM elements	14	18	24	14	18	24		
Cold Life at +20°C (ambient temperature)	88.3 h (at +2°C to +8°C)	108.4 h (at +2°C to +8°C)	160.2 h (at +2°C to +8°C)	50 h (below -20°C) 67 h (below -20°C) 92.5 h		92.5 h (below -20°C)		
Cold Life at +43°C (ambient temperature)	10 h (at +2°C to +8°C)	24.3 h (at +2°C to +8°C)	40.7 h (at +2°C to +8°C)	26.5 h (below -20°C)	40.2 h (below -20°C)	57.8 h (below -20°C)		













Performance data for RCW 25 using dry ice as cooling element

Active material	Dry ice - 9	mm pellets		
Number of Pfizer boxes	2	4		
Average amount of dry ice (kg)	23 21			
Cold Life at +20°C (ambient temperature)	218 h (below -60°C)	191 h (below -60°C)		
Cold Life at +43°C (ambient temperature)	193 h (below -60°C)	140 h (below -60°C)		

Ultra-Low Freezers

B Medical Systems | U Range

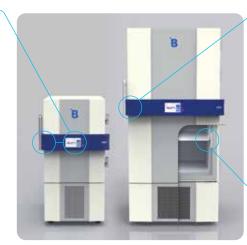
5 models • Volume 232 > 949 L • Set temperature -82°C • Climate class SN/T • Compliant to DIN 13277 | MDR (EU) 2017/745, Class IIa



Exclusive integrated electronics handle bar

All functionalities are easily accessible:

- Digital control with full functionalities -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



Special features

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



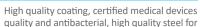






Versatile modularity

Excellent storage capacity and modularity -Large choice of racks offering modularity for every need.



better longevity and easy hygiene control.





Technical DataUltra-Low Freezers











		ι	J201	ι	J 401	ι	J 501		U701		L	1901			
Gross	/ Net volume (I)	232 / 217		478 / 454		634 / 602		791 / 75	1		949 / 900				
	Vials	15500 (2ml)		34500 (2ml)		46000 (2ml)		57500 (2	ml)		69000 (2ml)				
Stora; capac	Cryohoxes	155 (model H	150)	345 (model F	150)	460 (model H50)		575 (mod	575 (model H50)		690 (model H50)				
cupuc	Plasma bags	150 (350ml)		300 (350ml)		400 (350ml)		500 (350)	ml)		600 (350ml)				
Set te	emperature (preset)						-82°C								
	emperature (setting range) adjusted in steps of 0.1°C					-86°	C to -20°C								
Prese	t cold / warm alarm limit					-87	°C / -77°C								
Clima	te class (ambient temperature range)					SN / T (+	10°C to +43°C)								
Defro	sting technique					N	Manual								
Refrig	gerant type					R29	90 / R170								
Exteri	nal dimensions H x W x D (mm)	1293 x 699	x 1039	1988 x 699	x 1039	1988 x 845	x 1039	1988 x 9	1988 x 992 x 1039		1988 x 1139 x 1039				
Inner	dimensions H x W x D (mm)	657 x 447 >	c 738	1375 x 447	′ x 738	1375 x 593	x 738	1375 x 740 x 738 1375 x		1375 x 887	1375 x 887 x 738				
Net w	veight with standard equipment (kg)	195		250		276		297			320				
S	iupply voltage (V)	230	220	230	220	230	220	230	220	115	230	220			
ja F	requency (Hz)	50	60	50	60	50	60	50	60	60	50	60			
y Sa	Power (W)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000			
nerg E	inergy consumption (kWh/24h)	13.5	13.5	11.0	12.5	11.3	12.5	11.9	13.5	10.6	12.4	15.5			
Н	Heat emission (Kcal/h): air / water cooled	209 / 115	338 / 125	326 / 121	405 / 150	404 / 149	433 / 160	426 / 158	511 / 189	645 / -	444 / 164	567 / 210			
C	Compressor running time (%)	48	48	46	44	51	47	50	55	57	59	61			
	loise level (dB(A)) at 1m height & 1m distance)	49	50	49	50	52	53	48	49	47	51	52			
Н	Hold over time (-80°C to -60°C)	1.8 h	1.8 h	2.1 h	2.1 h	2.7 h	2.7 h	2.5 h	2.5 h	2.5 h	2.3 h	2.3 h			



Safe global blood management:

transportation, processing and storage

from collection to transfusion,



around the world

Reliable solutions for safe vaccination



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.



From Azenta Life Sciences

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. In 2022 Azenta Life Sciences acquired B Medical Systems.

B Medical Systems India Private Limited

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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.

Luxembourg, in the heart of Europe

