B medical systems Your trusted partner for the safe storage and transport of COVID-19 vaccines

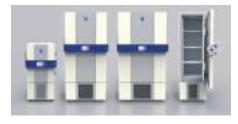


SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY



B Medical Systems provides reliable cold chain solutions to preserve **the potency and integrity of COVID-19 vaccines**.

-20°C



Ultra-low Freezers Up to 280.000 vaccine doses

-86°C



Ice Lined Refrigerators & Freezers Jup to 50.000 vaccine doses

+8°C



Transport Boxes Up to 10.000 vaccine doses (depending on dry ice/PCMs) -80°C +8°C



Laboratory & Solar Direct Drive Refrigerators

-20°C

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Jup to 146.000 vaccine doses
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We have **the solutions for any vaccine at any temperature** to help you transport and store COVID-19 vaccines around the world.



Ultra-low Freezers

from B Medical Systems offer a variable set point from -20°C to -86° C, ensuring the ability to store both Pfizer, Moderna and Sputnik vaccines.



Net Volume 206 & 720 L

Cryoboxes capacity

U201 & U701

- Certified Medical Devices according to MDR (EU) 2017/745, Class IIa and 21CFR Part 864.9700 (FDA), Class II
- Highly energy efficient
- Green Refrigerants
- Uniform temperature distribution
- 24*7 Remote Temperature Monitoring



COVID-19 Vaccine Storage

 \bigcirc Can be used for storing both Pfizer, Moderna and Sputnik vaccines

⊘Can be used in country hubs, regional hubs or last mile

Multi-mode Refrigerator / Freezer

from B Medical Systems can help you secure the broad temperature range of +8°C to -20°C. Vaccine capacity 150 L

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Temperature

-20°C to +8°C

Ice-packs capacity
187 (at 0.6 L)





COVID-19 Vaccine Storage

○ Can be used for storing Moderna vaccines or any other vaccines requiring 2-8°C

 \bigcirc Can be used in country hubs, regional hubs or last mile

TCW3000 AC

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TAXABLE / TAXABLE INCOME.

 Can act as vaccine refrigerator (Set-point at +5°C) or vaccine & ice-packs freezer (Set-point at -20°C)

Last .

- Hold over time at +43°C: 53 h 10 min. (Refrigerator)
 3 h 55 min. (Freezer)
- Rotomolded body
- Designed for tropical temperatures: +15°C to +43°C
- 24*7 Remote Temperature Monitoring

Transport Boxes

from B Medical Systems can be used for transporting all COVID-19 vaccines between country, regional hubs and the last mile. Vaccine capacity

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Temperature* -80°C to +8°C

Gross Volume

RCW1 & RCW25

- Rotomolded body
- Designed for Hot temperature zone: +15°C to +43°C





COVID-19 Vaccine Transportation

- ⊘ Ideal for transportation between country hubs, regional hubs and last mile points of care
- ✓ Can be used for transportation of Pfizer vaccines, Moderna vaccines or any other vaccines requiring 2-8°C

* Using dry ice (RCW25). Subject to change without prior notice. Some of the accessories shown in the pictures are optional.

Optimum control and protection

B Medical Systems | °B Connected & RTMD

°B CONNECTED MONITORING SOFTWARE

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

- Unique monitoring software for the full range of Blood Management Solutions and Medical Refrigeration products
- Web-based interfaces for computers and mobile devices
- Modern design for simple and intuitive use
- Graphic display of temperature curves
- Integrated event and activity history of appliances' components
- Data recording on centralized database for long-term archiving
- Easy setting of specific alarm, via email or SMS alerts
- Generation of reports compiling crucial data and activities
- Temperature and detailed device data export for third-party software
- Important cost advantage compared to a traditional circular chart recorder and its spare parts
- REST API to access raw data directly from the database in read-only mode

KEY BENEFITS:

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

REMOTE TEMPERATURE MONITORING DEVICE (INTEGRATED)

Integrated Remote Temperature Monitoring through our web based Vaclog network ensuring a high performing and reliable cold chain 24*7.

- Real time monitoring of temperature(s), door openings & GPS position
- 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 door openings
- Alarms are sent by text messages or emails





	ce cal Data ow Freezers		201		401		501		1701		J901
Gross / Net vo	olume (I)	214 / 206		451/434		598 / 57		747 / 720		895 / 86	
	Vials	15000 (2ml)	30000 (2m	1)	40000 (2ml)		50000 (2ml)		60000 (2ml)	
Storage	Cryoboxes	15000 (2) 150 (model H50)		345 (model H50)		460 (model H50)		575 (model H50)		690 (mod	lel H50)
capacity	Plasma bags	150 (350ml)		300 (350ml))	400 (350n	nl)	500 (350m	ıl)	600 (350	ml)
Set temperati	ure (preset)	-82°C									
Set temperatu	ure (setting range)	-86°C to -20°C									
	warm alarm limit	-87°C / -77°C									
Hold over tim	e (-82°C to -60°C)	1 h 00 min	1 h 00 min. 1 h 18 min.		1 h 18 min.		1 h 18 m	1 h 18 min.		nin.	
Climate class	(ambient temperature range)		SN / T (+10°C to +43°C)								
Defrosting tea	chnique		Manual								
Refrigerant ty	ipe					R29	90/R170				
External dime	ensions H x W x D (mm)	1293 x 699	9 x 1039	1988 x 69	9 x 1039	1988 x 845 x 1039		1988 x 99	92 x 1039	1988 x 1139 x 1039	
Inner dimensi	ions H x W x D (mm)	672 x 447	x 713	1370 x 44	7 x 713	1370 x 5	81 x 713	1370 x 74	40 x 713	1370 x 8	387 x 713
Net weight w	ith standard equipment (kg)	195		250		276		297		320	
Supply va	oltage (V)	230	220	230	220	230	220	230	220	230	220
	5 ,	50	60	50	60	50	60	50	60	50	60
Power (M		2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Energy co	onsumption (kWh/24h)	12.0	12.0	11.0	12.5	11.3	12.5	11.9	13.5	12.4	15.5
Heat emi	ission (Kcal/h)	209	338	326	405	404	433	426	511	444	567
Compress	sor running time (%)	45	45	46	44	51	47	50	55	59	61
	el (dB(A)) ht & 1m distance)	49	50	49	50	52	53	48	49	51	52



All values were measured at +25°C ambient temperature, -82°C Setpoint and without load. Subject to change without prior notice. Some of the accessories shown in the pictures are optional. The figures are approximate, and may vary based on the number of bags that are actually stored and the different bag manufacturers' specifications available on the market, the actual bag sizes as well as the individual user's practice of loading.

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

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Re	efrigerators	l	.55	ι	.130	L	290	L	380	LI	F260	Refrigerator combined	& Freezer	
Gro	ss / Net volume (I)	52 / 45		121 / 106		297 / 269		362 / 329		R 121 / 1	R 121 / 106 F		F 121 / 106	
Set	temperature (preset)						+5°C					-32°C		
Set can	temperature (setting range) be adjusted in steps of 0.1°C					+4°C	to +15°C					-32°C to -20°C		
	set cold / warm alarm limit			+3°C / +7°C						-37°C / -27			7°C	
Hol	d over time	1.3 h (+5°C	to +10°C)	1.5 h (+5°C to +10°C) 1.0 h (+5°C to +10°C)		to +10°C)	0.9 h (+5°C	to +10°C)	1.5 h (+5°C	to +10°C)	0.7 h (-32°C	to -23°C)		
Clin	nate class (ambient temperature range)					SN (+10	°C to +32°C)							
Def	rosting technique					N	latural					Manual		
Ref	rigerant type					F	R600a					R290		
Ext	ernal dimensions H x W x D (mm)	670 x 495	x 575	830 x 595	x 695	1670 x 59	5 x 695	1980 x 59	5 x 695		1650 :	< 595 x 695		
	er dimensions H x W x D (mm)	470 x 375	x 350	630 x 475	x 470	1470 x 47	5 x 470	1790 x 475 x 470		630 x 475	x 470	630 x 475 x 470		
Net	weight with standard equipment (kg)	38		59		94		107				117		
	Supply voltage (V)	220-240	115-127	220-240	115-127	220-240	115-127	220-240	115-127	220-240	115-127	220-240	115-127	
2	Frequency (Hz)	50 / 60	60	50 / 60	60	50 / 60	60	50 / 60	60	50 / 60	60	50 / 60	60	
Saver	Power (W)	100	100	200	200	200	200	200	200	200	200	300	360	
ergy	Energy consumption (kWh/24h)	0.7 / 0.8	0.8	1.0 / 1.0	0.8	1.8 / 1.9	1.9	1.8 / 1.9	1.8	1.0 / 1.0	0.8	2.8 / 2.9	3.1	
En	Heat emission (Kcal/h)	25	29	36	29	64	68	64	64	36	20	100	111	
	Compressor running time (%)	26	22	17	18	28	35	28	35	17	18	51	50	
	Noise level (dB(A)) (at 1m height & 1m distance)	35 / 36	37	35 / 36	38	38 / 40	39	40	38	35 / 36	38	45 / 47	47	

La	Echnical Data	The second se	6							
Re	efrigerators	L	400	LS	500	L7	700	L900		
Gro	oss / Net volume (I)	451/384		598 / 510		747 / 636		895 / 763		
Set	t temperature (preset)					+5°C				
Set can	t temperature (setting range) be adjusted in steps of 0.1°C	+4°C to +15°C								
	eset cold / warm alarm limit	+3°C / +7°C								
Но	ld over time	1.6 h (+5°C to +10°C)								
Clin	mate class (ambient temperature range)	SN / T (+10°C to +43°C)								
De	frosting technique	Natural								
Rej	frigerant type				F	R600a				
Ext	ternal dimensions H x W x D (mm)	1988 x 699	x 1039	1988 x 845	x 1039	1988 x 992	x 1039	1988 x 113	9 x 1039	
	er dimensions H x W x D (mm)	1167 x 447	x 713	1167 x 590	x 713	1167 x 740	x 713	1167 x 887	x 713	
Ne	t weight with standard equipment (kg)	194		215		237		259		
	Supply waltage (1/)	220-240	115-127	220-240	115-127	220-240	115-127	220.240	115-127	
	Supply voltage (V) Frequency (Hz)	50 / 60	60	50 / 60	60	50 / 60	60	220-240	60	
Save	Power (W)	300	300	300	300	300	300	300	300	
Energy Saver	Energy consumption (kWh/24h)	1.40 / 1.40	1.30	1.40 / 1.40	1.30	1.40 / 1.50	1.30	1.50 / 1.50	1.30	
	Heat emission (Kcal/h)	29	27	33	28	32	30	35	29	
	Compressor running time (%)	22	22	25	23	24	25	25	24	
	Noise level (dB(A)) (at 1m height & 1m distance)	46 / 49	52	47 / 51	50	50 / 51	46	47 / 47	46	





Technical Data Solar Direct Drive











		Ultra 16 SDD	TCW 15 SDD	TCW 15R SDD	TCW 40 SDD	TCW 40R SDD	TFW 40 SDD
Function		Vaccine Refrigerator	Vaccine Refrigerator & Ice-pack Freezer	Vaccine Refrigerator	Vaccine Refrigerator & Ice-pack Freezer	Vaccine Refrigerator	Ice-pack Freezer
Climate zone				Hot zor	ne (+43°C)		
Vaccine storage	e capacity (I)	16	16	16	36	36	-
Ice-pack storag	ge capacity (at 0.6 L)	-	4 (in ice-packs holders)	-	8 (in ice-packs holders)	-	60 + 8 (in ice-packs holders)*
Ice-pack freezii	ng capacity	-	1.97 kg / 24 h	-	1.89 kg / 24 h	-	2.16 kg / 24 h
Autonomy time	e (+2°C to +8°C)	477 h 56	84 h	81 h 52	81 h 54	81 h 54	120 h
Hold over time	(+2°C to +10°C)	-	-	87 h 48	93 h 24	93 h 24	-
Cool down time	е	312 h	35 h	36 h	36 h	36 h	313 h
Dimensions	External	1130 x 850 x 780	950 x 730 x 730	950 x 730 x 730	900 x 1030 x 780	900 x 1030 x 780	900 x 1030 x 780
H x W x D (mm)	Shipping	1260 x 940 x 878	1088 x 770 x 778	1088 x 770 x 778	1060 x 1040 x 800	1060 x 1040 x 800	1060 x 1040 x 800
Shipping weigh	nt (kg)	203	87	85	120	120	119
Number & type	e of solar panels	2 x 200 W / 25 V	2 x 200 W / 25 V	2 x 200 W / 25 V	2 x 200 W / 25 V	2 x 200 W / 25 V	2 x 200 W / 25 V
Energy	Stable running	0.34 KWh	0.49 KWh	0.43 KWh	0.57 KWh	0.80 KWh	0.59 KWh
consumption	Cool down	0.38 KWh	0.50 KWh	0.43 KWh	0.67 KWh	0.67 KWh	0.59 KWh
/ 24 h	During freezing	-	0.69 KWh	-	0.69 KWh	-	0.64 KWh
PQS code		E003 / 090	E003 / 077	E003 / 067	E003 / 042	E003 / 068	E003 / 073
CCEOP-eligible		Yes	Yes	Yes	Yes	Yes	Yes
Freeze protecti	on	Grade A	Grade A	Grade A	Grade A	Grade A	-

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* Maximum ice-pack storage capacity. All values were measured at +32°C or +43°C according to the climate zone of the concerned model (unless otherwise specified). Subject to change without prior notice. Some of the accessories shown in the pictures are optional.



Technical Data Solar Direct Drive



TCW 2000 SDD TCW 2043 SDD TCW 3000 SDD TCW 3043 SDD TCW 4000 SDD

Function		Vaccine Refrigerator & Ice-pack Freezer	Vaccine Refrigerator & Ice-pack Freezer	Vaccine Refrigerator	Vaccine Refrigerator	Vaccine Refrigerator
Climate zone		Temperate zone (+32°C)	Hot zone (+43°C)	Temperate zone (+32°C)	Hot zone (+43°C)	Hot zone (+43°C)
Vaccine storage	capacity (I)	99	70	156	89	220
lce-pack storage	e capacity (at 0.6 L)	24	17	-	-	-
lce-pack freezin	g capacity	4.8 kg / 24 h	2.5 kg / 24 h	-	-	-
Autonomy time	(+2°C to +8°C)	85 h 24	73 h 54	86 h 56	116 h 41	91 h 16
Hold over time	(+2°C to +10°C)	92 h	79 h	94 h 05	124 h 48	-
Cool down time		12 h	56 h	36 h	145 h	312 h
Dimensions	External	910 x 1270 x 780	910 x 1270 x 780	910 x 1270 x 780	910 x 1270 x 780	915 x 1625 x 780
H x W x D (mm)	Shipping	1030 x 1300 x 800	1030 x 1300 x 800	1030 x 1300 x 800	1030 x 1300 x 800	1040 x 1660 x 805
Shipping weigh	t (kg)	149	160	143	169	192
Number & type	of solar panels	4 x 200 W / 25 V	4 x 200 W / 25 V	2 x 200 W / 25 V	2 x 200 W / 25 V	2 x 200 W / 25 V
Energy	Stable running	0.78 KWh	0.73 KWh	0.25 KWh	0.68 KWh	0.83 KWh
consumption	Cool down	0.74 KWh	0.79 KWh	0.34 KWh	0.68 KWh	0.84 KWh
/ 24 h	During freezing	0.96 KWh	1.05 KWh	-	-	-
PQS code		E003 / 035	E003 / 043	E003 / 030	E003 / 045	E003 / 093
CCEOP-eligible		-	Yes	-	Yes	Yes
Freeze protection		Grade A	Grade A	Grade A	Grade A	Grade A

* Maximum ice-pack storage capacity. All values were measured at +32°C or +43°C according to the climate zone of the concerned model (unless otherwise specified). Subject to change without prior notice. Some of the accessories shown in the pictures are optional.







Function		or Ice-pack Freezer	or Ice-pack Freezer	Ice-pack Freezer	Vaccine Refrigerator	
Climate zone			Hot	zone (+43°C)		
Vaccine storage	e capacity (I)	150	109.5		240	
Ice-pack storag	ge capacity (at 0.6 L)	187	80	162	-	
Ice-pack freezin	ng capacity	-	17 kg / 24 h	32.4 kg / 24 h	-	
Hold over time	(+2°C to +10°C)	53 h 10	23 h 24	-	77 h 18	
Dimensions	External	910 x 1270 x 780	910 x 1270 x 780	910 x 1270 x 780	915 x 1625 x 780	
H x W x D (mm)	Shipping	1030 x 1300 x 800	1030 x 1300 x 800	1030 x 1300 x 800	1040 x 1660 x 805	
Shipping weigh	nt (kg)	123	115	126	192	
Operating volte	age range	AC I 230 V - 50 Hz 110 V - 60 Hz	DC I 12 or 24 V	AC I 220-240 V - 50/60 Hz 115 V - 60 Hz	AC I 220-240 V - 50/60 Hz 115 V - 60 Hz	
Energy	Stable running	3.83 KWh at +43°C	1.01/1.82* KWh	2.15 KWh	0.85 KWh	
consumption	Cool down	3.91 KWh at +43°C	2.15 / 2.13* KWh	2.20 KWh	1.24 KWh	
/ 24 h	During freezing	-	- / 2.35* KWh	2.20 KWh	-	
PQS code		E003 / 017	E003 / 008	E003 / 071	E003 / 066	
CCEOP-eligible		-	-	Yes	Yes	
Freeze protecti	ion	Grade A	Grade A	-	Grade A	



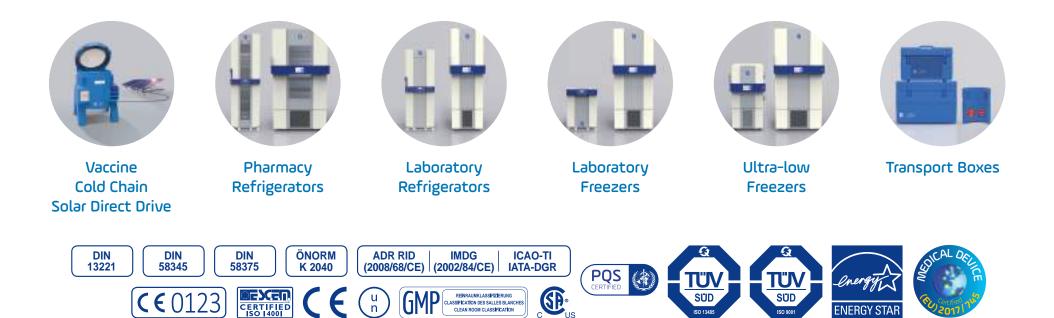
Technical Da Transport Bo

Technical Data Transport Boxes	-	J	E		R-1-	1-1-5
	RCW 1	RCW 2	RCW 4	RCW 8	RCW 12	RCW 25
Cooling system				Passive		
Climate zone			Но	t zone (+43°C)		
Gross volume (I)	1.73	2.2	8	20	24	44
Vaccine storage capacity (I)	1.04	0.6	3	6	7	20
Required Ice-pack (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

				0 X 0.5 L	2 X 0.3 L		
old life (up to	+10°C) at +43°C	32 h 06	17 h (22 h at +32°C)	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 (dov	vn to 0°C) at -20°C	17 h 06	-	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 103 (Ø)	130 x 190 x 90	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	320 x 380 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	2.1	7.3	16.4	23.3	38.9
	Shipping	7	2	4.2	11	17	23
Insulation thicl	kness (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

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B Medical Systems provides reliable cold chain solutions. Upgrade your cold chain today and protect your population.



Cold storage solutions are certified medical devices according to MDR and FDA regulations*. WHO PQS certified**.

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



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



Reliable solutions for safe vaccination around the world



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.



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. 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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www.bmedicalsystems.com

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.

WE SUPPORT

PALCO



Luxembourg, in the heart of Europe

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