

medical systems

BLOOD TRANSPORT BOXES

MT2 | MT4 | MT8 | MT12 | MT25 | MT100



6 MODELS

Shock Resistant

Lifetime Anti-corrosion Warranty

Anti-theft

Blood Transport Boxes designed for the reliable, safe and efficient transport of blood or other blood components

Blood Transport Boxes

Gross volume range from 2.02L to 90L

Compliances & Certifications

- MDR (EU) 2017/745, Class IIa
- Directive 2008/68/EC on the inland transport of dangerous goods by Road (ADR) and Rail (RID)*
- Directive 2002/84/EC on maritime transport: IMDG*
- International agreement for air transport: ICAO-TI/IATA-DGR*



Robust rotomolded body

- Made of rotationally molded polyethylene featuring a sturdy casing
- Designed for intensive use
- Corrosion-free material





Security & Reliability

- Sealable claps protecting from unauthorized access
- Designed to operate in tropical environments with temperature ranging from +5°C to +43°C

High Insulation

- CFC & HFC-free polyurethane foam injected into the double walls of the transport boxes ensuring optimum insulation and protection
- Superior hold-over time

*Except MT100

Blood Transport Boxes: MT Range - Performance Data

Blood Transport Boxes

*Product image for representation only, may vary depending on the configuration








		MT2	MT4	MT8	MT12	MT25	MT100*
Cooling system		Passive					Active (compressor) (220-240 V | 100-130 V |50/60 Hz)
Gross volume (L)		2.02	9.86	21.42	26.67	50.35	90
Storage capacity (bags)[1]		1 (450ml) / 2 (270ml)	4 (450ml) / 4 (270ml)	8 (450ml) / 14 (270ml)	20 (450ml) / 25 (270ml)	26 (450ml) / 40 (270ml)	48 (450ml) / -
Cold life[2] (up to +10°C)	**at +32°C**	14 h 57 min	79 h 48 min	57 h 02 min	96 h 14 min	109 h 08 min	-
	at +43°C	-	33 h 29 min	16 h 39 min	31 h 54 min	42 h 51 min	-
Dimensions H x W x D (mm)	*External*	210 x 250 x 148	301 x 363 x 287	435 x 588 x 287	499 x 547 x 468	495 x 707 x 547	1000 x 520 x 800
	Internal	125 x 178 x 91	230 x 273 x 157	245 x 470 x 186	279 x 358 x 267	271 x 519 x 358	450 x 306 x 545
Net weight (kg)		1.3	3.4	7.2	14.2	18.7	52
Weight fully loaded (kg)		2.2	8.28	13.5	24.7	37.9	-
Insulation thickness (polyurethane)		30 mm	23-27 mm	50-60 mm	90-105 mm	90-105 mm	38mm (door) 50mm (cabinet)
External / internal material		Polyethylene					
Accessories		2 Ice Packs of 0.3 L Crystal thermometer Separation wall	3 Ice Packs of 0.3 L 2 Ice Packs of 0.6 L Styropore box	4 Ice Packs of 0.6 L Styropore box	14 Ice Packs of 0.6 L Stainless steel box	24 Ice Packs of 0.6 L Stainless steel box Plastic frame	-
Required ice packs		1 x 0.3L	3 x 0.3 L and 2 x 0.6 L	4 x 0.6 L	6 x 0.6 L	12 x 0.6 L	-
European medical device regulation		MDR (EU) 2017/745, Class IIa					

*MT100 is a blood refrigerator/ incubator

1. *Storage capacity figures are approximate and may vary according to bag size, manufacturer specifications and loading practice*
2. *Tested without lid openings and loaded with IP and blood bags*

Operating temperature	+4°C or +22°C
Application range (ambient temperature)	-2°C to +43°C



Blood Transport Boxes:
MT-ET Range - Performance Data

Powered by PCM (Phase Change Material) technology to deliver precise, long duration temperature control

Phase Changing Material






	PCM -32°C	PCM +4°C	PCM +22°C	PCM +37°C
PCM Color	Orange	Blue	Green	Yellow
Nominal	-32°C	+4°C	+22°C	+37°C
Application	< -30°C FFP: Fresh frozen plasma (300ml)	+2°C > +8°C EC: Erythrocyte concentrate (310ml)	+15°C > +25°C WB: Whole Blood (600ml) | TC: Thrombocyte concentrate (340ml)	> +35°C EDTA: Blood samples (10ml)
Preconditioning temperature	≤ -40°C	≤ -3°C	≤ 15°C	≤ 30°C
Preconditioning time	> 72h			

Note: To use Phase Change Material (PCM), transport boxes from the MT-ET Range will be required.

PCM Performance data for MT-ET Range

			PCM -32°C	PCM +4°C	PCM +22°C	PCM +37°C
MT4 - ET *fully equipped with PCM* *4 x 0.3 L | 1 x 0.6 L*	***Number of charged units***		2 FFP	8 EC	2 TC	10 EDTA
	Ambient temperature	***-10°C***	> 24h	11 h 18 min	2 h 33 min	2 h 08 min
		+22°C	12 h 33 min	18 h 36 min	-	15 h 02 min
		+43°C	5 h 30 min	7 h 33 min	4 h 09 min	0 h 46 min
MT8 - ET *fully equipped with PCM* *12 x 0.6 L*	***Number of charged units***		6 FFP	8 EC	2 TC	20 EDTA
	Ambient temperature	***-10°C***	> 24h	21 h 45min	2 h 05 min	5 h 43 min
		+22°C	> 24h		-	> 24h
		+43°C	> 24h	13 h 34 min	5 h 03 min	5 h 58 min
MT12 - ET *fully equipped with PCM* *14 x 0.6 L*	***Number of charged units***		10 FFP	15 EC	-	
	Ambient temperature	***-10°C***	> 24h		-	
		+22°C	> 24h		-	
		+43°C	> 24h		-	
MT25 - ET *fully equipped with PCM* *18 x 0.6 L*	***Number of charged units***		27 FFP	40 EC	30 WB	-
	Ambient temperature	***-10°C***	> 24h		7 h 42 min	-
		+22°C	> 24h		-	
		+43°C	> 24h		14 h 03 min	-

Note: Storage capacity figures are approximate and may vary according to bag size, manufacturer specifications and loading practice

B Medical Systems S.à r.l

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

B Medical Systems is a global manufacturer and distributor of medical-grade devices with over 40 years of industrial experience.

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