

BLOOD TRANSPORT BOXES

MT4 | MT8 | MT12 | MT25

4 MODELS



Shock Resistant

Lifetime Anti-corrosion Warranty

Anti-theft

Blood Transport Boxes for the safe, reliable and efficient transport of blood and blood components across rugged operational environments, from military field operations to large-scale emergency responses.

Blood Transport Boxes

Gross volume range from 9.86L to 50.35L

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
- Sturdy body adapted for use in hostile conditions



MT12 & MT25 can be marked and delivered with the red cross upon request by authorized users

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

Blood Transport Boxes:
MT Range - Performance Data

Blood Transport Boxes

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



MT4



MT8



MT12



MT25

		MT4	MT8	MT12	MT25
Cooling system		Passive			
Gross volume (L)		9.86	21.42	26.67	50.35
Storage capacity (bags)[1]		4 (450ml) / 4 (270ml)	8 (450ml) / 14 (270ml)	20 (450ml) / 25 (270ml)	26 (450ml) / 40 (270ml)
Cold life[2] (up to +10°C)	***at +32°C***	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*	301 x 363 x 287	435 x 588 x 287	499 x 547 x 468	495 x 707 x 547
	Internal	230 x 273 x 157	245 x 470 x 186	279 x 358 x 267	271 x 519 x 358
Net weight (kg)		3.4	7.2	14.2	18.7
Weight fully loaded (kg)		8.28	13.5	24.7	37.9
Insulation thickness (polyurethane)		23-27 mm	50-60 mm	90-105 mm	90-105 mm
External / internal material		Polyethylene			
Accessories		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		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			

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*



Blood Transport Boxes:
MT-ET Range - Performance Data

PCM (Phase Change Material) technology to deliver precise, long duration temperature control: ideal for extended missions

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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