



medical
systems

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 8L to 44L



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

RAL 6031
Colour - Green

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

Security & Reliability

- Sealable claps protecting from unauthorized access
- Designed to operate in tropical environments with temperature ranging between +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

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



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

Cooling system

Passive

Gross volume (L)

8

20

24

44

Storage capacity (bags)¹

4 (450ml) /
4 (270ml)

8 (450ml) /
14 (270ml)

20 (450ml) /
25 (270ml)

26 (450ml) /
40 (270ml)

Cold life²

(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

299 x 362 x 283

437 x 588 x 288

499 x 550 x 475

499 x 710 x 550

Internal

186 x 260 x 156

245 x 460 x 180

270 x 340 x 260

264 x 496 x 334

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

- 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.
- Tested without lid openings and loaded with IP and blood bags.

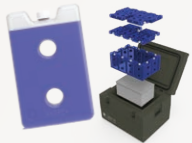


Blood Transport Boxes: MT-ET Range - Performance Data



PCM (Phase Change Material) technology to deliver precise, long duration temperate 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
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	-	> 24h
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			-
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			-
	Ambient temperature				
	+43°C	> 24h		14 h 03 min	-

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.

Contact:

17, op der Hei, Hosingen L-9809, Luxembourg

Tel: +352 92 07 31 1 | Email: info@bmedicalsyste.ms.com | www.bmedicalsyste.ms.com

