



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 2.2L 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



RAL 5051
Colour - Blue



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

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 in 50/60 Hz)	
Gross volume (L)	2.2	8	20	24	44	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 life² (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 150	299 x 362 x 283	437 x 588 x 288	499 x 550 x 475	499 x 710 x 550	1000 x 520 x 800
	Internal	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	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

- 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.

Operating temperature +4°C or +22°C

**Application range
(ambient temperature)** -2°C to +43°C

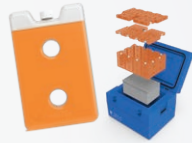


Blood Transport Boxes: MT-ET Range - Performance Data



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	-	

B Medical Systems S.à r.l

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

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