



Technical Data

General features



MT2



MT4



MT8



MT12



MT25



MT100

	MT2	MT4	MT8	MT12	MT25	MT100	
Cooling system	Passive					Active (Compressor)	
Gross volume (l)	2.2	8	20	24	44	90	
Storage capacity (bags)	1 (450ml) / 2 (270ml)	4 (450ml) / 6 (270ml)	8 (450ml) / 14 (270ml)	15 (450ml) / 25 (270ml)	26 (450ml) / 40 (270ml)	48 (450ml)	
Cold Life	at +32°C	up to 13.5 h	up to 46 h	up to 57 h	up to 96.14 h	-	
	at +43°C	-	up to 32.5 h	up to 16.39 h	up to 56.5 h	-	
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
	Inner	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 - empty (kg)	1.3	3.1	7	11.7	17	52	
Gross weight - fully stocked (kg)	2.2	7.6	14.2	25	40	-	
Insulation thickness (polyurethane)	30 mm	23-27 mm	50-60 mm	90-105 mm	90-105 mm	38-50 mm	
Material	Outer / Interior	Polyethylene					
	Interior container	Polystyrene			Stainless steel		-
European Medical Device Directive	93 / 42 / EEC, Class IIa						

Operating temperature	+4°C or +22°C	
Application range (ambient temperature)	-2°C to +43°C	
Voltage	AC (mains)	220-240 V - 50/60 Hz or 100-130 V - 60 Hz
	DC (battery)	12 or 24 V
EMC directive	2014 / 30 / EU	
Low voltage directive	2014 / 35 / EU	



CONTAINER
POLYSTYRENE
(fig. model MT8)



CONTAINER
STAINLESS STEEL
(fig. model MT12)



BASKET
STAINLESS STEEL
(fig. model MT100)



SECURING
PLASTIC
FRAME
(fig. model MT25)

Equipment Standard & optional

		MT2	MT4	MT8	MT12	MT25	MT100
Cooling element	at 0.3 L	● 1 ○	● 3 ○	-	-	-	-
	at 0.6 L	-	● 2 ○	● 4 ○	● 6 ○	● 12 ○	-
Interior container	Polystyrene	● 1	● 1	● 1 (with lid)	-	-	-
	Stainless steel	-	-	-	● 1 (with lid)	● 1 (with lid)	● 4 (baskets)
Securing plastic frame for interior container		-	-	-	-	● 1	-
Carrying strap (adjustable)		● 1	● 1	● 1	-	-	-
Document compartment	Front	-	● 2	-	-	-	-
	Back	-	● 1	-	-	-	-
Eutectic cooling system		○	○	○	○	○	-
Temperature Data Logger LogTag / Testo		○	○	○	○	○	○



EUTECTIC
COOLING
SYSTEM



DATA
LOGGER
(fig. model LogTag
TRED30-16R)

Smooth castors	●
Digital temperature display (0.1 digit)	●
Automatic AC/DC power supply selection	●
Automatic cooling / heating operation	●
Temperature / power failure alarm	●
Contact remote alarm temperature	●
Car fixation kit (belts)	●

● Standard ○ Optional - Not available

Subject to change without prior notice. Some of the accessories shown in the pictures are optional.

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

For long-term, temperature controlled transport

B Medical Systems | Eutectic Cooling System

B Medical Systems Eutectic Cooling Elements are heat accumulation elements, containing a so-called phase change material (PCM). The PCM stores latent heat at the required temperature at phase change (liquid / solid). The stored product will therefore remain at a near constant temperature for a specific period of time, without requiring active temperature control. The Eutectic Cooling Elements must be charged for the specified temperature prior to each use, and are available in 2 sizes: 0.3 L & 0.6 L.

THE PHASE CHANGE MATERIAL (PCM) ALLOWS FOR SAFE TRANSPORT DURING ALL SEASONS. FROM WINTER TO SUMMER, THE PCM HAVE THE SAME "MELTING POINT".

Tested according to specifications of the European Commission/ "Guide to the preparation, use and quality assurance of blood components"

The above picture shows the MT4 with eutectic cooling elements and aluminium frame as an example. The elements are available separately as an option.

It's also possible to order our passive models as ready-equipped eutectic versions. Please contact us for details.



Eutectic Cooling Elements	PCM -32	PCM +4	PCM +22	PCM +37
<i>Colour</i>	Orange	Blue	Green	Yellow
<i>Nominal</i>	-32°C	+4°C	+22°C	+37°C
<i>Application</i>	< -30°C FFP: Fresh frozen plasma (filling volume: 250ml)	+2°C > +8°C EC: Erythrocyte concentrate (filling volume: 280ml)	+15°C > +25°C TC: Thrombocyte concentrate (filling volume: 270ml)	> +35°C EDTA: Blood samples (filling volume: 9ml)
<i>Preconditioning temperature / time</i>	< -32°C / > 24h	< +4°C / > 24h	< +22°C / > 24h	< +37°C / > 24h

Cold life of B Medical Systems Transport Boxes with Eutectic Cooling System



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