

SLEE CRYOSTAT

cryostats

SLEE medical has more than 50 years of experience in the development, production and sales of cryostats. The application of these precision instruments is for the specimen preparation in histology and pathology as well as in industrial fields of quality assurance and material research. Already with the development of the worldwide first cryostat SLEE has achieved an excellent reputation and since then has continuously expanded a leading market position.

The cryostats produced by SLEE medical offer best ergonomic features and efficiency: The compact bench-top cryostat type MTC as well as the floor-standing units MEV and MNT comprise a spacious cooling chamber with easy-to-operate electronic control and automatic defrost function. The heart of all these units is the precise rotary microtome with well-proven SLEE quality.

Tissue Processors

Embedding Centers

Microtomes

Cryostats

Floating Bath & Slide Warmer

Staining Systems

Cover Slipper

Cytocentrifuge

Overview



MTC	MEV	MNT
Art. No. 10140000	Art. No. 10150000	Art. No. 10160000
Complete bench top cryostat	Floorstanding ECO-cryostat	Floorstanding high-end-cryostat
Exchangeable standard knife or disposable blade holder	Exchangeable standard knife or disposable blade holder	Exchangeable standard knife or disposable blade holder
Bench-top model	Motor trimming function, 0–300 µm	Motor trimming function, 0–300 µm
Manual coarse advance via side handwheel	Motor coarse advance in 2 speeds	Variable cutting speed
Object orientation	Object orientation	Object orientation
Automatic defrost	Actively cooled 24 position specimen storage	Actively cooled 24 position specimen storage
Power saving mode	Power saving mode	Power saving mode
	Automatic motor retraction	Automatic motor retraction

Options

UV-C disinfection	UV-C disinfection, 2 peltier driven quick freeze positions (-55 °C), debris extraction system	UV-C disinfection, 2 peltier driven quick freeze positions (-55 °C), specimen cooling (-45 °C), debris extraction system
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Specifications

735 D x 750 W x 460 H	680 D x 770 W x 1,110 H	760 D x 750 W x 1,140 H
80 kg	127 kg	154 kg
Cutting thickness 1–25 µm	Cutting thickness 0.5–100 µm	Cutting thickness 0.5–100 µm
	Trimming thickness variable 0.5–300 µm	Trimming thickness variable 0.5–300 µm
Horizontal advance 25 mm	Horizontal advance 28 mm	Horizontal advance 28 mm
Vertical stroke 52 mm	Vertical stroke 57 mm	Vertical stroke 57 mm
		Cutting speed variable 0.5–300 mm/sec
Specimen orientation x/y axis: 8° z axis: 360°	Specimen orientation x/y axis: 8° z axis: 360°	Specimen orientation x/y axis: 8° z axis: 360°
Specimen holders 22 and 35 mm Ø with grip protection	Specimen holders 22 and 35 mm Ø with grip protection	Specimen holders 22 and 35 mm Ø with grip protection
Cooling capacity -40 °C	Cooling capacity -35 °C	Cooling capacity -35 °C



MTC

Complete bench top cryostat

The MTC is a unique complete bench top cryostat for use in histology/pathology and research laboratories. The compact design makes this instrument an ideal backup for installed high-end cryostats and cost efficient alternative for low turnover applications. MTC is designed utilizing the latest ergonomic and technical ideas with special attention to hygiene and ease of handling.

- High-precision rotary microtome
- 6x Specimen preparation positions
- Integrated heat extractor
- Orientation of specimen holder in three planes
- Viewing window made of frost-free dual insulation glass
- Space-saving design
- Easily transportable
- Intuitive control panel
- Automatic defrost
- UV-C disinfection (optional)
- Height adjustable support stand (optional)

Standard Components

- Basic instrument
- Manual rotary microtome
- Operation manual
- Object holders (5x Ø 22 mm; 5x Ø 35 mm)
- 1x Heat extractor
- 1x Rack for object holders (stainless steel)
- Brush
- Anti-roll plate, ready to use
- 1x Bottle cryostat low temperature oil
- 1x CryoGlue embedding medium (4x 125 ml)
- 1 Box of disposable blades (50 pcs.) or 1 steel knife (12 cm C-profile)
- Set of allen keys



MTC Cooling chamber with manual microtome

Specifications

Cryochamber temperature	0 °C to -40 °C
Section thickness setting range	1–25 µm
Section thickness selection	0–10 µm in 1-µm steps 10–25 µm in 5-µm steps
Horizontal specimen advance	25 mm
Vertical specimen stroke	52 mm
Dimensions and weight (width x depth x height)	550 x 730 x 470 mm
Weight without accessories	80 kg
Specimen orientation , horizontal	8°
Specimen orientation , vertical	8°
Specimen orientation , z-axis	360°
Trimming thickness	0–10 µm in 1-µm steps 10–25 µm in 5-µm steps

MTC 230 V, 50/60 Hz

Art. No. #10140000

MTC 115 V, 60 Hz

Art. No. #10142000

Accessories

Standard knife holder	#10146000
Disposable blade holder (low profile)	#10147000
Disposable blade holder (high profile)	#10148000
UV-C surface disinfection	#10169000
Object holder (Ø 22 mm; 5 pcs.)	#30000002
Object holder (Ø 35 mm; 5 pcs.)	#30000000
Rack for object holders (stainless steel)	#31000769
Cork plate (100 pcs; Ø 20 mm)	#30001001
CryoGlue embedding medium (4x 125 ml)	#30001100
Clear cut brush	#30001030
Anti-roll plate	#30001006
Disposable blade (low profile; 50 pcs)	#28407000
Disposable blade (high profile; 50 pcs)	#28408000
Freezing spray (173 g)	#30001010
Cryostat low temperature oil (50 ml)	#30001011
Stand for MTC	#10140001