

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.

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

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

Specifications

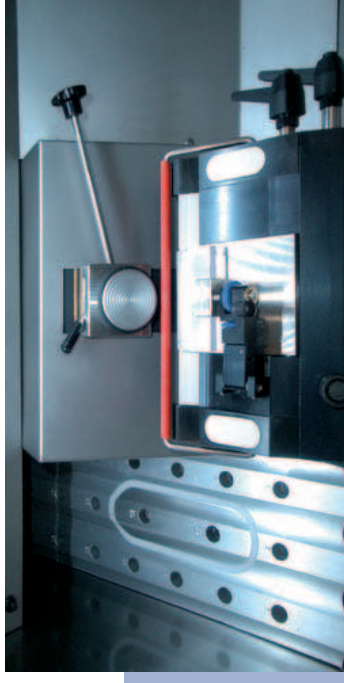
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|--|--|--|
| 735 D x 750 W x 460 H | 680 D x 770 W x 1,110 H | 760 D x 750 W x 1,140 H |
| 77 kg | 110 kg | 130 kg |
| Cutting thickness 1-25 µm | Cutting thickness 0.5-100 µm | Cutting thickness 0.5-100 µm |
| Trimming thickness variable 0.5-300 µm | Trimming thickness variable 0.5-300 µm | Trimming thickness variable 0.5-300 µm |
| Horizontal advance 28 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 |

MEV

Floorstanding ECO cryostat

The model MEV features convenient operation and a modern rotary microtome. The space-saving design still has a large stainless steel chamber, an effective freeze bar with 24 positions and a chamber temperature to -35°C.

- Modern rotary microtome with motorized μm advance/return
- Large anti-roll plate
- Viewing window made of frost-free dual insulation glass
- Intuitive electronic control panel
- Automatic defrost
- Pelletier shock-freezing positions
- UV-C disinfection
- Storage area for 24 specimen holders



MEV Cooling chamber with semi-automatic rotary microtome

Specifications

| | |
|---|---|
| Operating temperature range | +10 °C to +25 °C |
| Section thickness setting range | 0.5–100 μm |
| Section thickness selection | 0–2 μm in 0.5- μm steps 2–20 μm in 1- μm steps 20–50 μm in 2- μm steps 50–100 μm in 5 μm steps |
| Horizontal specimen advance | 28 mm |
| Vertical specimen stroke | 57 mm |
| Specimen retraction on return stroke | 0–200 μm ; selectable |
| Dimensions and weight (width x depth x height) | 600 x 680 x 1130 mm |
| Weight (without accessories) | 110 kg |
| Specimen orientation, horizontal | 8° |
| Specimen orientation, vertical | 8° |
| Specimen orientation, z-axis | 360° |
| Trimming thickness | 0–300 μm , freely programmable |

Standard Components

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|---|
| Basic instrument |
| Semi-automatic rotary microtome |
| Operation manual |
| 2x Object holders (1x \varnothing 22mm; 1x \varnothing 35 mm) |
| Brush |
| Anti-roll plate Ready to use |
| 1x Bottle cryostat low temperature oil |
| 1x Bottle GSV embedding medium |
| 1 Box of disposable blades (50 pcs.) or 1 steel knife (16 cm C-profile) |
| Set of allen keys |

Accessories

| | |
|--|-----------|
| Standard knife holder | #10156010 |
| Disposable blade holder (low profile) | #10157005 |
| Disposable blade holder (high profile) | #10158005 |
| 2x Quick freezing positions | #10159000 |
| UV-C surface disinfection | #10169000 |
| Cutting counter | #10090020 |
| Heat extractor | #33000316 |
| Object holder (\varnothing 22 mm; 5 pcs.) | #30000002 |
| Object holder (\varnothing 35 mm; 5 pcs.) | #30000000 |
| Object holder (\varnothing 50 mm; 5 pcs.) | #30000003 |
| Cork plate (100 pcs; \varnothing 20 mm) | #30001001 |
| Embedding medium GSV1 (125 ml) | #30001000 |
| Clear-cut brush | #30001030 |
| Anti-roll plate (disposable blade holder) | #32001050 |
| Anti-roll plate (standard knife holder) | #32001049 |
| 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 |

MEV 230 V, 50/60 Hz

Art. No. #10150000

MEV 115 V, 60 Hz

Art. No. #10153010