

# Product specification

## MEV · Routine cryostat

Item No.: 10150000    230 V, 50/60 HZ  
 Item No.: 10153000    115 V, 60 HZ



### Specifications

Nominal supply voltage:	230 V AC +/- 10%
Nominal frequency:	50 / 60 Hz
Power draw:	860 VA
Protective class:	(I) I
Power fuses:	2x T 10 A
Pollution degree:	(I) 2
Oversvoltage installation category:	II
Maximum heat emission:	860 J/s
Operating temperature range	+10 to +35 °C
Operating humidity	max. rel. 80 % non-condensing
Storage temperature range	+5 to +55 °C
Storage humidity	max. rel. 80 % non-condensing
Cryochamber Material:	Stainless steel
Cryochamber Dimensions [W x D x H]:	490 x 550 x 400 mm
Cryochamber Illumination:	LED
Cryochamber Temperature range:	0 °C down to -35 °C, +/- 5 K, adjustable in 1 K steps
Cooling time RT to -25 °C:	approx. 5 h
Cooling time to -35 °C	approx. 6 h
Refrigeration capacity:	640 W

## Specifications

Refrigerant:	R 449 a
Automatic Defrost:	automatic hot gas defrosting, temperature and time controlled manual defrosting on demand
UV-C disinfection (optional):	254 nm, programmable, safety sensors
Specimen preparation positions:	24x positions, 10°C lower than chamber temperature
QuickFreeze specimen preparation positions (optional):	2x positions, down to -55 °C
Microtome Section thickness setting range:	0,5 - 100 µm
Microtome Section thickness selection:	0,5 - 2 µm in 0,5 µm, 2 - 20 µm in 1 µm 20 - 50 µm in 2 µm, 50 - 100 µm in 5 µm
Trimming thickness setting range:	0,5 – 750 µm
Horizontal specimen feed:	28 mm
Vertical stroke:	58 mm
Maximum specimen size:	55 mm
Coarse feed:	motorized, 2 speeds (600 µm/s / 3000 µm/s)
Specimen retraction	0 - 200 µm, free programmable
Specimen orientation, horizontal:	8°
Specimen orientation, vertical:	8°
Specimen orientation, z-axis:	360°
Housing Dimensions and weight [W x D x H]:	680 x 760 x 1110 mm
Weight [w/o accessories]:	127 kg

(1) According to IEC 1010, EN 61010

## Standard components

Anti-roll plate
Specimen holders (5 x Ø 22 mm; 5 x Ø 35 mm)
Section counter
Disposable blade holder (alternatively: standard knife holder)
Heat extractor (1 pcs.)
Rack for specimen holders (stainless steel)

## Standard components

Disposable blades (box with 50 pcs.)

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CryoGlue embedding medium (125 ml)

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Cryostat low temperature oil (50 ml)

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Set of Allen keys

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Clear-cut brush

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Mains cable

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Manual

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## Options

### Item No.

2 quick freezing positions

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10159000

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UV-C disinfection 230 V, 50/60 Hz

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10169000

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UV-C disinfection 115 V, 60 Hz

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10169001

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Object cooling 230 V, 50/60 Hz

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10164000

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Object cooling 115 V, 60 Hz

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10164200

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Debris extraction system 230 V, 50/60 Hz

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10167000

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Debris extraction system 115 V, 60 Hz

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10167200

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## Optional accessories

### Item No.

Standard knife holder

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10156010

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Specimen holder (Ø 22 mm; 5 pcs.)

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30000002

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Specimen holder (Ø 28 mm; 5 pcs.)

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30000017

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Specimen holder (Ø 35 mm; 5 pcs.)

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30000000

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Specimen holder (Ø 50 mm; 5 pcs.)

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30000003

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Rack for specimen holders (stainless steel)

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31000769

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Cork plates (Ø 20 mm; 100 pcs.)

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30001001

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CryoGlue embedding medium (4 x 125 ml)

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30001100

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Clear-cut brush

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30001030

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Anti-roll plate (disposable blade holder, plastic)

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32001050

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Anti-roll plate (standard knife holder, plastic)

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32001049

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## Optional accessories

	Item No.
Steel knife (16 cm-C-profile, 1 pcs.)	28000026
Disposable blades (cf. consumables)	
Ergosit laboratory chair	10157010

## Consumables

	Item No.
Disposable blades (plasma coated) Low profile plasma LPS for soft specimens, 50 pcs. / box	28407005
Disposable blades (plasma coated) Low profile plasma LPH for hard specimens, 50 pcs. / box	28407004
Disposable blades (plasma coated) High profile plasma HPS for soft specimens, 50 pcs. / box	28407007
Disposable blades (PTFE coated) Low profile suitable for all types of specimens, 50 pcs. / box	28407000
Disposable blades (PTFE coated) High profile suitable for all types of specimens, 50 pcs. / box	28408000

## Accessory for cryostats

	Item No.
CryoGlue embedding medium (4 x 125 ml)	30001100
Cryostat low temperature oil, 50 ml	30001011
Cork plates (Ø 20 mm; 100 pcs.)	30001001

## Comments / additional information:

In case of further questions, please feel free to contact us at every time.

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