

Product specification

MNT · High-end cryostat

Item No.: 10160000 230 V, 50/60 HZ
 Item No.: 10162000 115 V, 60 HZ



Specifications

Nominal supply voltage:	230 V AC +/- 10%
Nominal frequency:	50 / 60 Hz
Power draw:	860 VA / 1360 VA + specimen cooling (optional)
Protective class:	(I) I
Power fuses:	2x T 10 A
Pollution degree:	(I) 2
Overvoltage installation category:	II
Maximum heat emission:	860 J/s / 1360 J/s + specimen cooling (optional)
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
Dimensions [W x D x H]:	490 x 550 x 400 mm
Illumination:	LED
Temperature range:	0 °C down to -35 °C, +/- 5 K, adjustable in 1 K steps
Cooling capacity	640 W
Cut-off pressure	25 bar
Power consumption	3,69 A

Specifications

Refrigerant	R 449 a, 320 g
Cooling time RT down to -25 °C:	approx. 5 h
Cooling time down to -35 °C	approx. 6 h
Chamber automatic defrost	hot gas defrost, time selectable, 1 to 3 defrost cycles / 24 h, or manual hot gas defrosting
Automatic switch-off	at -5 °C chamber temperature
UV-C disinfection (optional):	254 nm, programmable, safety sensor for switch-off
Sample preparation stations:	24x positions, approx. 10°C lower than cooling chamber temperature
Quick Freeze specimen preparation positions (optional):	2x positions, down to -55 °C
Object cooling (optional) Temperature range	0 °C down to -45 °C +-3K
Cooling capacity	193 W
Cut-off pressure	25 bar
Power consumption	1.69 A
Refrigerant	R 404 A, 50 g
Microtome type	Rotary microtome, encapsulated, motorized infeed, motorized cutting movement
Section thickness setting range:	0,5 - 100 µm
Section thickness selection:	0,5 - 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 feed:	28 mm
Vertical stroke:	58 mm
Sample retraction in upward motion	0 - 200 µm, freely selectable (defined steps)
Trimming thickness	0.5 - 750 µm, freely selectable (defined steps)
Specimen orientation, horizontal:	8°
Specimen orientation, vertical:	8°
Specimen orientation, z axis:	360°
Cutting speed	3 - 300 mm/s freely adjustable
Section modes:	Manual, motorized (trimming, single, continuous)
Maximum specimen size:	55 mm

Specifications

Cryostat dimensions and weight [W x D x H]:	750 x 760 x 1,110 mm
Weight [w/o accessories]:	135 kg (standard version) 154 kg (with object cooling)

(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.)
Foot switch for motor drive
Rack for specimen holders (stainless steel)
Disposable blades (box with 50 pcs.)
CryoGlue embedding medium (125 ml)
Cryostat low temperature oil (50 ml)
Set of Allen keys
Clear-cut brush
Mains cable
Manual

Options

	Item No.
2 quick freezing positions	10159000
UV-C disinfection 230 V, 50/60 Hz	10169000
UV-C disinfection 115 V, 60 Hz	10169001
Object cooling 230 V, 50/60 Hz	10164000
Object cooling 115 V, 60 Hz	10164200
Debris extraction system 230 V, 50/60 Hz	10167000
Debris extraction system 115 V, 60 Hz	10167200

Optional accessories

	Item No.
Standard knife holder	10156010
Specimen holder (Ø 22 mm; 5 pcs.)	30000002
Specimen holder (Ø 28 mm; 5 pcs.)	30000017
Specimen holder (Ø 35 mm; 5 pcs.)	30000000
Specimen holder (Ø 50 mm; 5 pcs.)	30000003
Rack for specimen holders (stainless steel)	31000769
Cork plates (Ø 20 mm; 100 pcs.)	30001001
CryoGlue embedding medium (4 x 125 ml)	30001100
Clear-cut brush	30001030
Anti-roll plate (disposable blade holder, plastic)	32001050
Anti-roll plate (standard knife holder, plastic)	32001049
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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