



Semi-Automatic Cryostat Microtome

Model: MTC-2230

CE



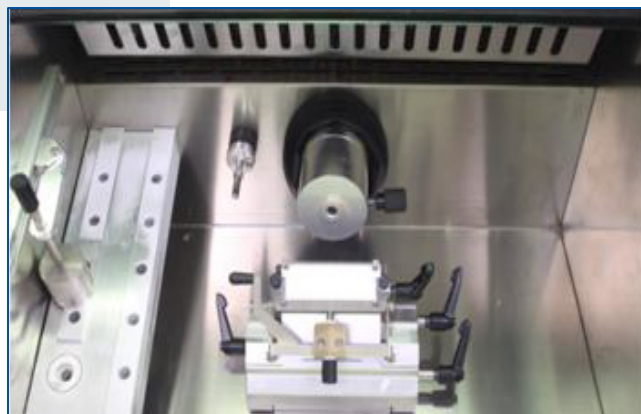
FEATURES:

- Specimen retraction function, protects specimen from blade damage
- Dual compressors, freeze the cryostat chamber, freezing shelf, knife holder and specimen clamp separate
- Dual defrost methods: definite time and manual
- One compressor, which is made in Germany, fast freezing and lower noise.
- Pro-environment— environmentally friendly refrigerant --R404A.
- The chamber temperature can drop to working condition within 60 minutes after switching the unit on.
- Specimen retraction function, protects specimen from blade damage
- UVC sterilize function
- Unit has two defrost methods: definite time and manual
- LCD screen can display data: sample travel, thickness, function controlling, day, time, temperature and time on/off.
- Peltier may be switched on or off manually.
- Unit contains two defrost methods: definite time and manual
- Multi position hand wheel lock
- Wide freezing shelf may put 10 specimen cassettes
- The angle of Specimen orientation on X/Y axes 8° and specimen rotation on Z axes 360°

A+A Diagnostics GmbH
Auf der Heide 15, D- 37351 Dingelstädt
Federal Republic of Germany
Phone +49 (036075) 439-440 Fax -308
e-mail info@aa-diagnostics.de
Internet: <http://www.aa-diagnostics.de>

SPECIFICATIONS:

Section thickness range:	1μm~80μm	adjustable
	1μm~20μm	in 1μm increment
	20μm~40μm	in 2μm increments;
	40μm~80μm	in 5μm increments
Trimming thickness range:	10μm~400μm	adjustable;
	10μm~50μm	in 5μm increments;
	50μm~100μm	in 10μm increments;
	100μm~400μm	in 50μm increments;
Freeze chamber temperature range:	-10°C~-30°C	
Specimen temperature range:	-10°C~-30°C	
Cool down time to	-30°C:60 min	
Freeze shelf minimum temperature:	-45°C	
Lowest temperature of Peltier unit on freeze shelf:	-55°C	
Peltier working time:	15 minutes	
Maximum specimen size	35mm×35mm	
Specimen vertical stroke:	60mm	
Specimen horizontal stroke:	20mm	
Coarse feeding speed:	0.7mm/s; 0.35mm/s	
Retraction range:	0μm~80μm adjustable; in 5μm increment	
Voltage and frequency:	AC220V ±10%	
	50/60 Hz	
Power:	650W	
Weight:	125kg	
Dimensions	(W×D×H):660×640×1130mm	



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Semi-auto /Manual Tissue Cryostat Microtome

The Cryostat Microtome is used in conventional histology and Mohs surgery. It represents the high-end products. It is a highly cost-effective cryostat microtome. It produces high-quality tissue sections in a fast, simple, and efficient way. Our goal is to: To improve the precision of the cancer diagnosis, improve the diagnosis speed and decrease the cost of diagnosis. Let more people can enjoy the fast and precise medical tests, thus promote the optimization of treatment.

This machine is a rapid pathological section instrument to human and animal body tissues. It can be widely used for pathological diagnosis, analysis and research in hospitals, medical colleges, legal medical experts and propagation institutes.

Reliability And Key Features

- A specimen retraction function protects the specimen from blade damage. A trimming button allows for easy switching between trim and sectioning mode.
- Achieves the desirable sectioning temperature within 30 minutes after turning on the unit when using the fast cooling mode.
- A large-size quick-freezing shelf allows for the preparation of 26 specimens at the same time. Two holes for semiconductor refrigeration.
- Specimen head temperature can be adjusted.
- Two defrosting modes: time defrosting and manual defrosting.
- The cryogenic refrigeration system utilizes a forced cooling structure. The refrigeration chamber, freezing shelf, blade holder, and specimen holder are cooled independently by a German double compressor to enhance cooling performance and increase cooling speed.



Ergonomic Design

- Removable glass door.
- Keyboard locking function to avoid accident wrong operation.
- UV option enables surface disinfection of harmful bacteria, viruses, and spores by using 35 min after each use.
- low-voltage DC shadowless lamp.
- Equipped with separate cleaner. Quickly to collect the waste in the chamber.
- A mechanical hand-wheel lock ensure safe chamber access, 16 position for locking.
- The red bar on the blade holder covers the whole length of blade to protect the user and the push bar enables easy changing of the blade.

Compressor

- Two Danfoss compressors.
- Imported R404A non-CFC refrigerants that are environment-friendly.

Other Feature

- Microtome is outside of the refrigeration chamber to avoid the effect of heat-expansion and cold-contraction, thus minimizing the need for maintenance.
- Auto sleep function result in longer compressor life: the cryo-chamber temperature automatically stays in a range of -4 to -9°C under the sleep mode, and returns to the sectioning temperature within 15 minutes after canceling the sleep mode.

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Specifications:

Parameter	Section thickness range	1-100µm Adjustable 1-20µm Increment : 1µm 20-40µm Increment : 2µm 40-100µm Increment : 5µm
	Trimming thickness range	10-400µm Adjustable 10-50µm Increment : 5µm 50-100µm Increment : 10µm 100-400µm Increment : 50µm
	Specimen retraction	0-80µm Adjustable , Increment : 5µm
	Maximum specimen size	45mm*50mm
	Horizontal stroke	20mm
	Vertical stroke	60mm
	Freezing chamber temperature	-10°C to -40°C Adjustable
	Specimen head temperature	-10°C to -40°C Adjustable
	Specimen head rotary angle	X-axis,Y-axis:12° Z-axis:360°
	Freezing shelf	Minimum freezing shelf temperature : -45°C Number of freezing station : 26
Feature	Peltier	Minimum Peltier shelf temperature : -60°C Peltier number : 2 Working time to reach -60°C : 15min
	Compressor type	Double Danfoss compressor
	Net weight	135KG
	Size	660mm*640mm*1150mm
Dimension	Gross weight	175KG
	Packing size	790mm*810mm*1336mm
	Voltage and frequency	AC220V±10%, 50Hz(Standard) AC110V±10%, 60Hz
	Power	600W
Technical Data	Noise	52DB(A)
	Refrigerant	R404A
	Type for blade holder	√
Safety	Handwheel lock	16 positions locked
	Certification	CE
Others	Other remarks	OEM/custom-made accepted
	Waste cleaner	√

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