

UNI120 Cryostat Microtome

04 Innovative Design we care for you

1. Disinfection

The UV lamp allows the instrument to disinfect itself. (scheduled or manual).

2. Clear sight

The glass door is heated and prevent frost to build up.

3. Sorting specimens

Specimens can be sorted in numerical order.

4. Defrost timer

A defrost time could be set to work at night only for 15 minutes.

5. Innovative drying button

The instrument has a rapid drying system which saves the time of naturally drying the condensate water in the chamber.

6. Unique concept

The one-time injected, continuous mold of the cryostat makes it easy to maintain and clean.

Technical Parameter

| UNI120 Cryostat Microtome | |
|--------------------------------|---|
| Type of microtome | Semi - automatic |
| Section thickness range | 1 μm - 100 μm |
| | From 1 - 20 μm in 1 μm increments |
| | From 20 - 50 μm in 2 μm increments |
| | From 50 - 100 μm in 5 μm increments |
| Trimming thickness range | 1 μm - 600 μm |
| | From 1 - 50 μm in 5 μm increments |
| | From 50 - 100 μm in 10 μm increments |
| | From 100 - 600 μm in 50 μm increments |
| Retraction | 0 μm - 200 μm , automatic return stroke |
| Increment speed | 300 $\mu\text{m}/\text{s}$ ($\pm 10\%$) , 900 $\mu\text{m}/\text{s}$ ($\pm 10\%$) |
| Chamber temp | -35°C - 40°C |
| Freezing plate temp | Minimum temperature -40°C ($\pm 5^\circ\text{C}$) |
| Number of freezing stations | 18 pcs |
| Rapid cooling peltier stations | 2pcs, Minimum temperature -60°C ($\pm 5^\circ\text{C}$) |
| Max specimen size | 55 * 55 mm |
| Specimen orientation | 12° on X, Y axis |
| Chamber illumination light | LED |
| Handwheel lock | Mechanical |
| Cooling capacity | 690W |
| Defrost | Both scheduled & manual |
| Size (with handwheel) | 780mm*700mm*1280mm |
| Weight without packing | Approx. 120 kg |
| power consumption | 1200VA |
| Supply voltage / frequency | 220-240VAC, 50HZ/110-127VAC, 60Hz |
| Conformity | CE, FDA & ISO 13485 |



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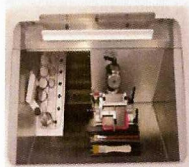
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UV disinfection



Working UI



Configuration UI



01 Reliable Section Quality precise mechanical movement

1. Uniform section quality

Driven by a precise motor, the instrument can function accurately thus produce uniform section.

2. Heavy duty operation

Durable motion guide rail makes it easy to deal with multiple tasks.

3. Applicable for all kinds of tissues

Universal adjustable specimen discs, works for finding perfect section angle for small tissues like kidney tissue.

4. Anti-sticking hammer

The cooling hammer is coated with an anti-sticking layer which prevents the specimen from sticking.



02 High Efficiency

1. Visualized operation

Large color touch screen, makes visual strock scale and operation visualized and easier.

2. High-capacity

With a large freezing plate, 20 specimens can be frozen per operate.

3. Qualified sectioning technique

The high-quality blade holder, adapts to both high and low profile, with unique anti-seize coating and arc designation, reduces trembling during sectioning thus benefits the continuously sectioning.

4. Innovative anti-roll

Anti-roll plate designed with clamp which can hold at any position could function flexibly.

5. Sleep mode

The system supports presetting working time, switch from sleep mode to working mode automatically on time.

03 Smart Temperature Control System provides an ideal temperature for your specimens

1. Powerful compressor

Continuous sectioning is made possible due to the quality compressor, which keeps the chamber and plate under stable conditions.

2. Patented smart temperature algorithm

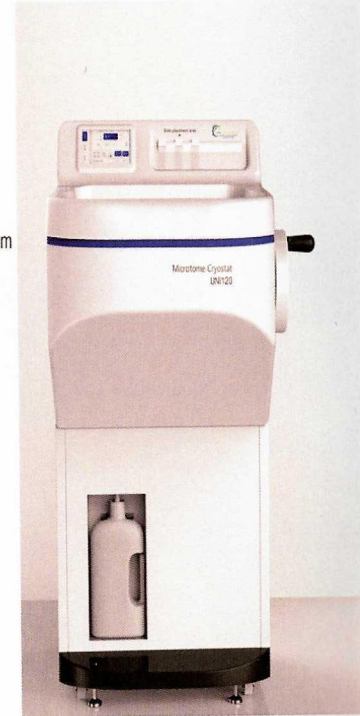
Chamber temperature is kept cool in assurance of many accurate temperature sensors and 2 peltier elements.

3. Anti-sticking

The patented technology design of freezing plate ensures no frost are formed during freezing and no specimen is stick to the plate at the same time.

4. Rapid cooling peltier stations

With the rapid cooling peltier stations, the temperature can rapidly reach and stabilize around -55°C to -65°C .



Hand wheel with lock



Specimen clamp



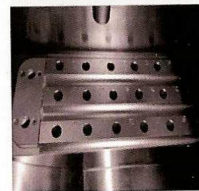
Slide placement area



Color touch screen



Numbered freezing plates



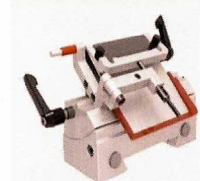
Anti-roll plate



Anti-frost glass door



Blade holder



Rapid cooling peltier stations

