

KD-2950 Cryostat Microtome



Features

- This model has an ergonomic design and is manufactured using numerically-controlled machine tools
- A specimen retraction function protects the specimen from blade damage
- A trim button allows for easy switching between trim and sectioning mode
- Includes a counting function for the number of sections and the total thickness
- 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.
- Imported R404A non-CFC refrigerants that are environment-friendly
- Achieves the desirable sectioning temperature within 20 minutes after turning on the unit when using the fast cooling mode
- UV option enables surface disinfection of harmful bacteria, viruses, and spores by using 35 min after each use; It also has low-voltage DC shadow less lamp
- Semiconductor cooling function can be turned on and off
- Hearable and removable glass door
- Two defrosting modes: time defrosting and manual defrosting
- Microtome is outside of the refrigeration chamber to avoid the effect of heat-expansion and cold-contraction, thus minimizing the need for maintenance
- User-friendly intelligent operational interface is easy to learn and operate
- LCD screen displays the number of sections and the total thickness, section thickness, specimen retraction value, temperature setting, date, time, temperature and on/off, timer are all included on the main display
- Auto sleep function results in longer compressor life: the cryo-chamber temperature automatically stays in a range of -1 to -9°C under the sleep mode and returns to the sectioning temperature within 15 minutes after canceling the sleep mode
- Keyboard locking function to avoid accident miss operation
- A mechanical hand-wheel lock ensure safe chamber access, 16 positions 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
- A large-size quick-freezing shelf allows for the preparation of 17 specimens at the same time; Two holes for semiconductor refrigeration

- It has cleaning device, easy help customer to clean the unit
- Specimen Orientation: XY – 8°; Z– 360° adjustable at any orientations to ensure precise placement
- Self-detection function for the temperature sensor can help to warn the failure on the temperature sensor.

Technical Specification

Section thickness can be adjusted within a range of 1μm~100μm

- 1μm – 20μm increments 1μm
- 20μm – 40μm increments 2μm
- 40μm – 100μm increments 5μm

Trim Section Thickness Feed: adjusted in the range of 10μm to 400μm

- 10μm – 50μm increments 5μm
- 50μm – 100μm increments 10μm
- 100μm – 400μm increments 50μm

Chamber Temperature	from -10°C to -40°C
Time for the quick freeze shelf to reach	-40°C: 60 minutes
Lowest possible temperature of the Peltier element	-45°C
Lowest possible temperature of the Peltier element together with the quick-freeze shelf	below -60°C
Running Time of the Peltier element	15 minutes
Maximum Specimen Size	35mm×35mm
Specimen Vertical Stroke	60mm
Specimen Horizontal Stroke	20mm
Electric Coarse Feed	rapid 0.7mm/s; slow 0.35mm/s
Working Voltage	AC220V±10%50Hz (standard model); AC110V±10%60Hz
Total Power	450W
Dimensions	650×800×1160mm(W×D×H)
Net weight	115kg