

# KD-2850 Cryostat Microtome



## Features

- This model has an ergonomic design and is manufactured using numerically-controlled machine tools
- A specimen retraction function protects specimen from blade damage
- A trim button results in easy switching between trimming and sectioning modes
- A counting function displays 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 compressor.
- Imported R404A environmentally friendly non-CFC refrigerants are used
- Achieves the desirable slicing 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 each use; It also has low-voltage DC shadow less lamp
- Activation of the Peltier element is controllable (on/off)
- Heat table and removable glass door
- Two defrost 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
- An uncluttered intelligent control panel is easy-to-learn and easy-to-use
- LCD screen displays the number of section pieces, total thickness, section thickness, specimen retraction value, temperature setting, date, time, temperature and on/off timer
- Auto sleep function brings humanity to the product: 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
- Keys can be locked to avoid miss operation; 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 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
- A mechanical hand-wheel lock ensures safe chamber access

## Technical Specifications

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

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

Trimming thickness can be adjusted within a range of 10µm ~ 400µm

- 10µm – 50µm increments 5µm
- 50µm – 100µm increments 10µm
- 100µm – 400µm increments 50µm
- Specimen retraction distance can be adjusted within a range of 0 ~ 80µm, in 5µm increments

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