

FULLY AUTOMATIC CRYOSTAT MICROTOME

FREESE-CUT-F-24

Design, Development & Manufacturing of Histopathology Laboratory Instruments.



9034999314



ipisales63@gmail.com

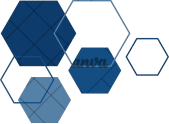


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FULLY AUTOMATIC CRYOSTAT MICROTOME

FREESE-CUT-F-24

Fully Automatic Cryostat Microtome (**FREESE-CUT-F-24**) precision-engineered system for accurate frozen tissue sectioning, offering reliable performance, smooth operation, and consistent results for histopathology and research laboratories.



KEY FEATURES

Display & User Friendly Operation

- LCD / Touch Screen display for chamber temperature, section thickness, time & defrost settings.
- Digital electronic control system with user programmable settings.
- User selectable coarse feed wheel rotation direction.
- Visual indication of section thickness settings.
- **Fully automatic motorized sectioning**
- **Single section / Double section & continuous section mode**

Advance Cooling System

- Dual Compressor Cooling System for rapid freezing performance.
- Separate cooling systems for chamber and specimen holder.
- Active cooled freeze shelf with quick freezing stations.
- Independent specimen holder temperature control up to -50°C
- Maximum cooling achieved within 2-3 hours after startup.
- Condensation free chamber operation.
- Supply with Color coded blocks and color coded OCT
- **Automatic defrost system**

Precision Sectioning Cutting

- Rotary microtome based on stepper motor technology.
- Automatic specimen retraction on return stroke.
- Fast Forward & Backward trimming function.
- Adjustable cutting angle for precise sectioning.
- Anti-roll plate with antistatic guide for smooth ribbon formation.
- Lateral displacement blade holder for maximum blade utilization.

Blade & Specimen Handling

- Universal disposable blade holder for low & high profile blades.
- Stable and easy specimen disc clamping system.
- One or more quick freezing stations available.
- Facility for trimming provided.
- **Adjustable cutting speed control**
- **Multiple speed settings for different tissue types**
- **Digital section counter for tracking total cutting cycles**
- **Programmable trimming and sectioning**

Safety, Hygiene & illumination

- Safety Blade Holder
- **Specimen head safety lock**
- UV Sterilization System & Bright and uniform lighting for precise sectioning work
- Finger protection guard for user safety.
- **Emergency Stop Button & Handwheel locking system**
- Anti-glare chamber illumination for clear specimen visibility

Spacious Cryo Chamber

- Floor standing open top cryostat with spacious stainless steel chamber.
- Encapsulated splash-proof microtome design.
- Large specimen storage shelf for minimum 16 chucks.
- Bright white LED chamber illumination for clear visibility.
- Easy to clean specimen preparation zone.

PRECISION IN EVERY
SECTION IN EVERY RESULT
Engineered for Accuracy. Built for Reliability.



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TECHNICAL SPECIFICATION	
Section Mode	Fully Automatic / Manual Operation
Safety Feature	Hand Wheel lock or Emergency stop button
Setting value	1 μ m - 10 μ m in 1 μ m increments 10 μ m - 20 μ m in 2 μ m increments 20 μ m - 60 μ m in 5 μ m increments
Minimum setting value	1 μ m
Section Thickness Range	1–60 μ m
Trimming thickness range	10–100 μ m in 10 μ m increments
Specimen feed	Automatic specimen retraction control
Specimen orientation	x- and y-axes : universal 8°
Specimen retraction	5-75 μ m, in 1 increment
Specimen size	55 * 80 mm
Chamber defrosting	Programmable or manual
Ultra Low Peltier Temperature	Minimum Peltier Temperature - 50 deg C
Cryo chamber Temperature	-1 to -40°C Adjustable
Vertical Stroke	65 mm
Motorized Coarse Feed	600 & 900 μ m/sec
Object/Horizontal feed	25 mm
Blade Holder	Compatible with standard disposable blades
Freezing Shelf Temperature	-50 quick freezing shelf
No. of Freezing station	16 stations
Cooling system	Dual compressor
Cooling downtime to -30°C	2 to 3 Hours
Operating temperature	Up to -30°C
Lowest temperature of peltier unit	-40°C
Nominal Volatage	220–240V AC, 50/60 Hz



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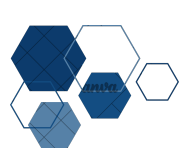


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ACCESSORIES

1. OPERATING MANUAL - 1 NO
2. BRUSH- 3 NOS ASSORTED
3. BLOCK- 12 NOS
4. STABILIZER- 1 NO
5. OCT BOTTLE-1 NO
6. WASTE BOTTLE-1 NO
7. SCREW DRIVER-1 NO
8. DISPOSABLE BLADE-1 PKT (PACK OF 50 BLADES)



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