



ACM60

| Automatic cryostat

Details Info

This model's transmission frame connects with the base plate to form a transmission mechanism frame, and the latter frame link to feeding shell by a guide rail. The guide rail and retainer in mechanical transmission system was made in USA, and are so highly precise that enables to slide with even no gap, which results in free of lubrication, maintenance and noise. Leading screw and nut roll coordinately to feed, while a disco tic spring between them to eliminate the gap in process.

Design Features

Take both aesthetics and practicality into structure design

Ergonomical one-step Injection Molded housing(including fixing bottom studs) results in appropriate structure, attractive appearance and convenient operation, and enables to avoid resonance and lower the frictional resistance. Stainless steel built-in tank and waste tray make operation and clearance convenient. Complete machine designed easier assemble and dissemble to be easy operation and repair.

Electronic control system with Powerful functions and convenient operation

Sucking waste fast make it easy to clean the inside anytime.
 Humanize standby function: freezing chamber temperature is between -9°C and -4°C automatically while standby and will reach appropriate temperature for slicing in 15 minutes after standby is canceled.
 Section counting function counts total slicing pieces and thickness.
 LED screen displays specimen stroke, thickness, functions and settings of time and temperature.
 Sterilization by UV light.
 Specimen retraction function protects specimens from blade scratching and ensures sections' integrality (enable to shut down).
 Defrost: automatically or manually.
 Temperature sensor enables self-inspection.

Precise, comfort, and safe slicing experience

Blade clamp with lock on top of blade holder enables to clamp wide or narrow blades. To avoid flexible blade cause by spring fatigue, we adopt three-point pressing plate to fix blade and a cam lock to ensure tight.

Blade clamp enables to move horizontally to avoid danger from unintended touch on blade. A third of the blade can do the entire slicing, which makes the blade's life time three times longer.

Blade holder enable to prevent decline, and optional wide and narrow blades

Anti-rolling plate enables to adjust horizontally, verticality, and also to adjust angle and gap with pressing plate.

Specimen clamp enables to adjust triaxially.

Wide freezing shelf may hold 20 specimen discs meanwhile.

Illumination by LED in freezing chamber.

Keyboard enables to lock to avoid misoperation.

Fast, steady refrigerant system

Cryostat adopts a DANFOSS compressor to cool down freezing chamber by R404A environment friendly fluoride-free refrigerant.

It takes 120 minutes to reach appropriate temperature for slicing in when first starting up.

Vacuum glass window with transparent electronic heating resistance on top layer enable to prevent fog and cold air leakage.

1.Modular control system

- (1)Defrost automatically / manually
- (2)Hibernation automatically / manually ,wake up in 15 minutes
- (3)UV sterilization
- (4)Semi-conductor refrigerant
- (5)Slice number and thickness calculation
- (6)2 movement speeds of specimen clamp

Appearance :

- (1) one-time injected model cover
- (2) Anti-fog heating glass design
- (3) Chromatic liquid crystal touch screen .

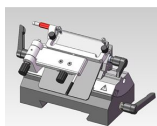
Microtome :

- (1) light and smooth handwheel with locking device on it
- (2) Specimen clamp enables to adjust triaxially with a block in the centre to go back
- (3) High precision guide rails made in Germany make transmission smooth durable and be able to cut hard sample
- (4) Retraction

Freezing chamber

- (1) Extra large chamber with wide freezing shelf may hold 20 specimen discs meanwhile .
- (2) With waste tray and instrument rack .

Blade holder :__



- (1)Wide or narrow blades optional ;
- (2)A anti-fatigue cam lock ensures blades clamp tight;
- (3)Blade clamp can be moved horizontally on the guide rail for safety and making full use of a blade ;

- (4)Glass anti rolling plate to adjust angle and gap with pressing plate ;
- (5)A pushing rod pops the blade out .

Technical Specifications

Electrical

Security type	I category, B type
Voltage,Frequency	AC220V,50Hz(±10%) Or AC110V,60Hz(±10%)
Input power	650 VA

Refrigerating

Freezing chamber	The range of temperature setting	-35℃ to-10℃
	Defrost	Manual/auto
	refrigerating capacity	690 W
	Refrigerate	R404a, 300 ±5g
Quick-freezing shelf	Minimum temperature	-45 ℃
	Number of Specimen holder Freezing points	20
	Number of Semi-conductor freezing points (switchable)	2

Microtome mechanical

Settingrange of section thickness: 0μm -100μm	Value	Move value/step
	0μm - 10μm	1μm
	10μm - 20μm	2μm
	20μm - 50μm	5μm
	50μm - 100μm	10μm
	Value	Move value/step

Setting range of trimming thickness: 0µm - 500µm	0µm - 20µm	2µm
	20µm - 50µm	5µm
	50µm - 100µm	10µm
	100µm - 500µm	50µm
Specimen's horizontal stroke		25 mm
Specimen's vertical stroke		59 mm
Specimen's max size		55 mm * 55 mm
Specimen clamp's max adjustable angle		12°
Specimen fast moving speed		0.7mm/s

Dimensional:

Width	780 mm(650mm without handwheel)
Thickness	700 mm
Height	1152 mm
Net weight	145kgs
Gross weight	190kgs



Head Office :1600 AVENUE DE LORIMIER BUREAU, 384 MONTRÉAL (QUÉBEC) CANADA H2K3W8 USAOffice:128 W SUFFLOK AVE,CENTRAL ISLIP,11722 N
Middle east & Africa Office : warehouse 9 /shed 9, Technology park P.O. Box 54806 RAK FZE , UAE



Email Us At:

sales@acculabusa.com middleeast@acculabusa.com



Phone Support: