

SECTIONING

MC 5050 Microtome Cryostat with retraction

IVD CE



Model MC 5050 Semi-automatic Cryostat with fully encapsulated Microtome, is used for rapid freezing of pathological sections of human and animal tissues. It can be widely used for pathological diagnosis, analysis and research in hospitals, medical colleges, and legal medical institutes. Ergonomic, attractive and modern design features rounded corners and easy-to-use joystick. Convenient working height.

The touch-screen display gives all unit status in a glance.

UVC disinfection to minimize contamination risks by infectious material.



SECTIONING

The unit

The instrument consists of 4 major parts:

- The touch-screen control panel is in top area. Displays the temperature, the settings and the general working conditions of the instrument.
- The cryochamber, wide and spacious with constant low temperature, ergonomic storage and flat freezing shelf.
- In the cryochamber is located the fully encapsulated microtome with stepper motor feed-in.
- The lower area is the heart of the refrigeration system, with the compressor unit.



The freezing chamber is wide and spacious. The sliding window is anti-fog and anti reflection and when open, the UV lamp is automatically disabled. The holder disks are located on left side of chamber and can be stored on shelf area in 20 refrigerated places. On frontal touch-screen display, it's possible to check and regulate all necessary parameters for excellent cut like thickness, temperature, sample retraction and so on. On frontal left side, a useful joystick allow an easy control for sample forward and backward and further sets for cutting operations. All these operations can be easily performed with eyes on cut operations.

Technical features

Microtome:

Section thickness range: 0-100 μm

Adjustable Increment:

Value	Move value/step
0 μm – 10 μm	1 μm
10 μm – 20 μm	2 μm
20 μm – 50 μm	5 μm
50 μm – 100 μm	10 μm

Trimming thickness range: 0~500 μm

Adjustable Increment:

Value	Move value/step
0 μm – 20 μm	2 μm
20 μm – 50 μm	5 μm
50 μm – 100 μm	10 μm
100 μm – 500 μm	50 μm

Specimen retraction: 20 μm

Horizontal stroke: 25 mm

Vertical stroke: 59 mm

Specimen's max size: 55 mm X 55 mm

Specimen orientation: 12°(X,Y,Z three directions)

Specimen fast moving speed: 0,7 mm/s

Cryostat

Refrigerating capacity: 690 W

Chamber temperature: -10°C ~ -35°C Adjustable

Freezing shelf temperature: -45°C

Number of freezing station: 20

Peltier number: 2

Refrigerant: R404a, 300g±10g

Compressor oil: 0.6L EMKARATE RL-22S, ICI

Size and weight

Width: 780 mm (650 mm without hand wheel)

Thickness: 700 mm

Height: 1152 mm

Net weight: 145 kgs

Gross weight: 190 kgs

Electrical data

Working voltage: 220/230V

Frequency: 50/60 Hz

Power: 650 V/A

Product	Size	Packaging	Code
Microtome Cryostat with retraction	Unit	1 pc	MC5050