

**Imagine... automated onboard disinfection...  
residue free**



**Tissue-Tek<sup>®</sup> Cryo<sub>3</sub><sup>®</sup>**  
SAKURA

Microtome/Cryostat

# Redefining state-of-the-art...

The next generation of excellence is here. In 3 different configurations to meet your laboratory needs. Select automated disinfection. Or motorised sectioning. Or both. But no matter which model of the Tissue-Tek® Cryo<sub>3</sub>® you choose, you'll also benefit from time-proven features, operator convenience, minimal maintenance, operating simplicity, and reliability that are standard with all Sakura products.

There's more to the Tissue-Tek® Cryo<sub>3</sub>® than first meets the eye. Here's just a quick look:

## Safe, integral disinfection and productivity-enhancing features

- Rapidly disinfect the chamber without toxic chemicals or residue
  - Unique ozone (O<sub>3</sub>) disinfecting system
- Menu-driven software, all-digital control
- 12 configurable Cryobar® positions
  - Round specimen holders in 3 sizes
  - Round biopsy and standard Cryomold® positions offer standardised specimen orientation
  - Cryo+® area cools to -20°C below chamber temperature; down to -50°C



### Smooth precision, reliable performance

- Ball-bearing microtome, computer-controlled
- Motorised advance/retract with limit protection
- Easy-to-use anti-roll rake or anti-roll plate: specimen transfer to the slide
- Manual or optional motorised trimming and sectioning
- Blade holder accepts both Accu-Edge® low-profile and high-profile disposable blades
- Maintenance-free microtome located outside the chamber



### Simple to operate, yet sophisticated

- Preconfigured memory settings for: specimen type procedure operator
- Streamlined, all-digital control panels; multilingual



### Easily programmed setup menu

- Disinfection: automatic cycle every day or on demand
- Defrost: automatic cycle every day or on demand
- Chamber temperature: 0°C to -35°C  $\pm$ 1°C
- Section thickness: 1  $\mu$ m to 99  $\mu$ m  $\pm$ 1  $\mu$ m
- Section counter mode: sections or thickness
- Trim thickness: 1  $\mu$ m to 200  $\mu$ m  $\pm$ 1  $\mu$ m
- Intermittent sectioning: 1 to 99  $\pm$ 1 section; or total thickness: 1  $\mu$ m to 99  $\mu$ m  $\pm$ 1  $\mu$ m
- Retract/advance speed: 500  $\mu$ m/sec or 800  $\mu$ m/sec
- Retraction: no retraction or retraction distance from 1  $\mu$ m to 99  $\mu$ m  $\pm$ 1  $\mu$ m
- LCD contrast adjustment allows adaption to various light conditions



Easily orient specimen with Tissue-Tek® O.C.T.™ Compound using the Cryomold® technique. The heat extractor can be used to enhance freezing.



Position specimen on Cryobar®. For rapid cooling down to -50°C, place specimens on the Cryo+® portion of the Cryobar®.



Cryomolds® provide a standardised, flat-surface with precise orientation to speed up sectioning.

# Fluid-free, waste-free disinfection

## Innovative ozone disinfection designed for maximum safety in routine operation

- Disinfection performed within 75 minutes
- Abort sequence takes less than 15 minutes
- Defrost cycle not required prior to initiating disinfection cycle
- No residue inside chamber: by-product is O<sub>2</sub>

## Password-secure chamber access

- Chamber window is interlocked and sealed until all ozone is catalysed into oxygen
- Chamber also can be locked at any time to minimize accidental exposure to pathogens
- User-selectable warning messages alert of potentially hazardous conditions

## Vacuum debris removal system

Practical, easy removal of excess debris and O.C.T. shavings

- Debris system can eliminate shavings that accumulate on blade plate during sectioning
- Optional attachment enables easy removal of debris at chamber base
- Microbial filter is easily detached and discarded
- Vacuum can be adjusted to increase power as necessary



## Dedicated to Histopathology

Sakura Finetek, again, improves the laboratory. By offering a flexible, high precision instrument, the users can conveniently complete their activities in a safe environment. As the innovative company in histopathology, Sakura Finetek is continuously looking for possibilities to improve the laboratory... and succeeds in offering a solution for the problems found in the histopathology laboratory.

### Product Specifications

#### Dimensions

(W x D x H) 60 x 75 x 118 cm

Weight 200 kg

**Chamber Temperature Range** -35°C to 0°C  
**Cryobar® Temperature** -50°C minimum (Cryo+® section)

#### Sectioning Speed Range:

Maximum 28 sections per minute

Minimum 2 sections per minute

**Specimen Size** Round 25, 38 and 55 mm

**Specimen Orientation** 8°C to 10°C (x and y axis),  
360°C (z axis)

**Sectioning Range** 1 to 99 µm in 1 µm increments

#### Travel Range

**Vertical** 63 mm

**Horizontal** 31.75 mm

Item Code	Product Description	Item Code	Product Description
5800	Cryo <sub>3</sub> ® 100/115 V, 50/60 Hz - Basic	5805	Cryo <sub>3</sub> ® 220 V, 50/60 Hz - with Disinfection System & Motorised
5801	Cryo <sub>3</sub> ® 100/115 V, 50/60 Hz - with Disinfection System	4538	O.C.T.™ Compound
5802	Cryo <sub>3</sub> ® 100/115 V, 50/60 Hz - with Disinfection System & Motorised	4728	Round Cryomold® Standard; 100/cs
5803	Cryo <sub>3</sub> ® 220 V, 50/60 Hz - Basic	4730	Round Cryomold® Biopsy; 100/cs
5804	Cryo <sub>3</sub> ® 220 V, 50/60 Hz - with Disinfection System	4810	Accu-Edge® Low-Profile Cryo sectioning

**First we understand.  
Then we innovate.**



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