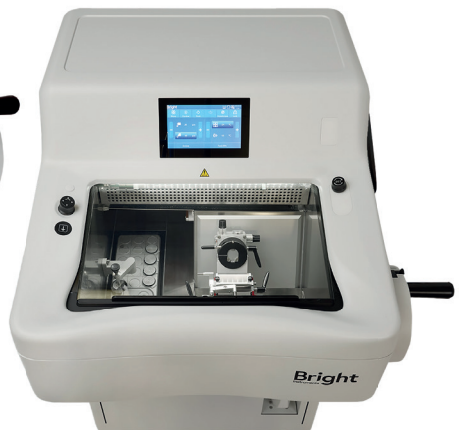


Bright

Instruments

OTF7000 Cryostat

Our OTF7000 Cryostat is the latest version of our machines designed to deliver reproducible tissue sections with precise temperature control. This cryostat can handle a large number of specimens and is available in two models, with the OTF7000/A benefitting from motorised sectioning.



FEATURES & BENEFITS

- **Precise and stable temperature control**
- **Reproducible section quality**
- **Energy efficient and cost saving**
- **Fully positionable specimen head with visual display of tilt in X&Y axis and true 'zero tilt' dials**
- **UV decontamination – to handle varying biological specimen types with UVC for increased user safety**
- **Individually controlled temperature settings on both the cryochamber and the specimen holder**

High Precision Temperature Control

Our cryostat is extremely consistent, both in terms of temperature control and sectioning quality. Temperatures are regulated in the cryochamber between 0 to -35°C.

- Intelligent temperature control system
- Variable speed compressor
- Sample head cooling system that includes an adjustable temperature range of between -10°C and -50°C, via a cooled Peltier system offering faster temperature optimisation
- A 'Cryobar' sample preparation station which rapidly cools to -60°C



Stable Section Quality

Stable sectioning is maintained by:

- Precision cross roller guide rails that guarantee section smoothness and accuracy
- Precise screw rods that meet 0.5µm sample section requirements
- Five phase, high resolution stepping motor with higher positioning accuracy and lower motor vibration
- Horizontal sampling slide crafted from ultra-high strength and corrosion resistant aviation grade aluminium



Touchscreen

The 7-inch touchscreen makes any adjustment clear at a glance:

- The adjustment of temperature settings (Chamber & Specimen)
- The adjustment of thickness settings (Trim & Section)
- Manage and schedule the UVC disinfection and the defrost cycles
- Rapid sample positioning (Position memory & "Go to" function)
- Access historical logs
- Easily manage energy saving sleep mode
- Create temperature pre-sets for optimal sample sectioning.



EFFICIENT & ENERGY SAVING

This expertly engineered machine delivers efficiency with:

- A visually appealing 7 inch touch-sensitive screen
- Automatic sleep and wake-up feature that saves up to 40% annual energy consumption
- A joystick that controls coarse sampling, trimming and section switching, as well as section parameter adjustment
- Rapid and precise positioning with $\pm 8^\circ$ visual pointer facilitating adjustment of the specimen clamp to the target angle. This reduces trimming and sample waste
- Efficient hot-gas defrosting with a variety of options
- Auto-sectioning option available for ease of use and consistent sectioning of all specimen types
- Specimen loading via a single lever operation
- Specimen marking to easily record and identify each sample

CRYOSTAT SPECIFICATIONS

- Section thickness setting range: **0.50–100µm**
- Trimming section thickness setting range: **1–800µm**
- Electric advance speed: **0–1800µm adjustable**
- Specimen retraction: **0–250µm adjustable**
- Specimen feed: **28mm**
- Vertical stroke: **70mm**
- Working Height: **1025mm**
- Specimen horizontal & vertical rotation: **X/Y axis 8°**
- Number of refrigerated sample sites: **15**
- Number of fast cooling sample sites: **2**
- Cabinet refrigeration temperature: **0°C to -35°C**
- Sample head minimum cooling temperature: **-50°C**
- Accepts high and low profile microtome blades
- 230v ~ 50Hz 1350VA
- Weight: **~183kg**
- Width/depth/height: **853mm/863mm/1210mm**



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