



## Cryostar NX70 Cryostat

Designed to fulfill the needs of both research and clinical laboratories, the CryoStar NX70 cryostat introduces a form-fitting design, integrated height control and motorized sectioning. Go quickly from mounting tissue to ready-to-cut with quick-freeze and setup features. Section tissue samples more efficiently with improved stability and individually controlled temperature settings on both the object holder and blade carrier.

### First-Rate Sectioning for the Precision You Demand

- Independent cooling of blade holder and specimen head keeps cutting area at set temperatures, even during periods of high use
- Novel knife carrier feed enhances sectioning stability and quality
- Rapid-response temperature control provides active cooling of the specimen head, blade holder, and cryobar while maintaining consistent specimen temperature
- Dedicated low- and high-profile blade holders and separate knife carrier improve stability

### Safe, Comfortable, and In Control

- Large, open chamber with bright LED illumination offers an optimized workspace for operators, featuring eighteen tissue stations and one fast-freeze Peltier for quick, efficient sample preparation
- Optional cold disinfection system provides supplemental surface disinfection in under 60 minutes while the cryostat is still cold
- Light-touch handwheel requires minimal force to operate, limiting repetitive motion discomfort. Motorized cutting helps reduce user fatigue and avoid repetitive motion injury
- Body-contoured design positions the user closer to the chamber to maintain comfortable posture and aids in reducing back and neck strain often associated with frozen sectioning
- Integrated height adjustment (32-44 in. / 82-112 cm), supporting both standing and seated operation with the touch of a button

### Enhanced User-Experience

- Optional Vacutome feature aids in generating wrinkle-free sections and can also be used to remove waste from chamber
- Integrated joystick control and color LCD touchscreen allow for quick, precise adjustments, easy operation for end users, and training for additional users
- Programmable and immediate defrost options

### Physical Specifications

Dimensions (D x W x H):  
39.4 x 29.7 x 32.3-44.0 in.  
(100 x 75.5 x 82-112 cm)  
(adjustable)

Weight: 440 lbs / 200 kg

Power requirements:  
100 V, 50/60 Hz, 10A  
100-120 V, 60 Hz, 10A  
220-230 V, 50/60 Hz, 5A

### Base Model Includes

Five specimen stages (4 x 30 mm, 1 x 40 mm), anti-roll plate, section waste tray, brush shelf, debris brush, sectioning brush, blade handling tool, and operator guide

Description	Configuration	Order Number
NX70, 110 V (unit only)	HOMP	957000
NX70, 220-240 V (unit only)	HOMP	957040
NX70, 110 V (unit only)	HOMPD	957010
NX70, 220-240 V (unit only)	HOMPD	957050
NX70, 110 V (unit only)	HOMPV	957020
NX70, 220-240 V (unit only)	HOMPV	957060
NX70, 110 V (unit only)	HOMPDV	957030
NX70, 220-240 V (unit only)	HOMPDV	957070

Please note that instrument order numbers are for the unit only. To purchase a blade holder (low- or high-profile, or steel knife), please see the blade holder section for respective order numbers.

#### Configuration Descriptions

H - Height Adjustment

O - Object Cooling

M - Motorized

P - Peltier

D - Cold Disinfection

V - Vacutome

#### **Features:**

- Adjustable cutting speed from 0 mm/s to 256 mm/s
- Section thickness from 0.5  $\mu\text{m}$  to 500  $\mu\text{m}$
- Vertical stroke length of 64 mm
- 48 mm horizontal feed range
- 20  $\mu\text{m}$  specimen retraction on return stroke, with optical indication

Order Eprexia stainless steel blades, designed for cleanly cutting high-quality frozen sections in your cryostat from Eprexia.

#### **You'll need:**

 blades & blade holders

 specimen stages

 staining kits

 embedding media