



Thermo Scientific CryoStar NX50
Cryostat

Designed for performance created for comfort

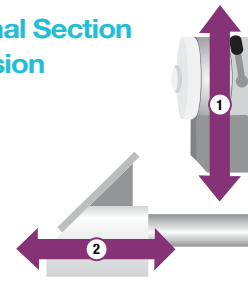
- Exceptional sectioning quality
- Unmatched ergonomics and safety
- Energy efficiency

Exceptional Sectioning Quality for Cryotomy Applications

Exceptional Sectioning Quality

- New microtome design creates a more stable sectioning platform for increased precision
- Precise sectioning delivers consistent sections of uniform thickness

Optimal Section Precision

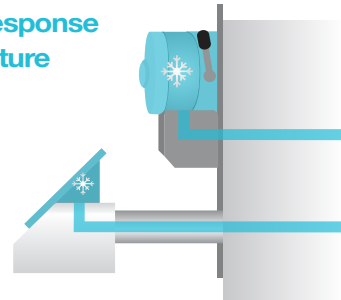


1. Specimen Holder Moves Vertically for sectioning.
2. Knife advances horizontally towards the sample.

Rapid Response Temperature Control

- Active cooling of the specimen head, blade and cryobar maintains consistent specimen temperature
- Set the ideal temperature for each sample type in just minutes with rapid temperature control

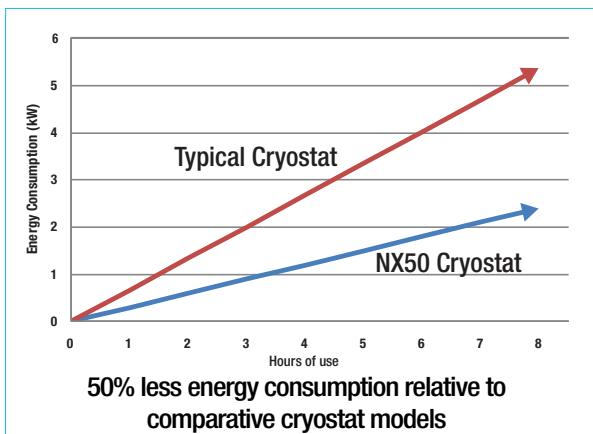
Rapid Response Temperature Control



Cryostat actively cools all surfaces that contact the sample including the specimen clamp, knife carrier and cryobar.

Energy Efficiency

- Active cooling with the rapid response temperature control system cools samples more efficiently than conventional cryostats
- Reduces energy costs without compromising performance



Unmatched Ergonomics and Safety

Ergonomics and Comfort

- Body-contoured design positions the user closer to the chamber maintaining comfortable posture
- Large, open work chamber with adjustable LED directed lighting for enhanced visibility
- Light-touch handwheel requires minimal force to operate, limiting repetitive motion discomfort

Motorized Height Adjustment



Rapid adjustment of the chamber height from 32 in – 44 in (82 cm – 112 cm) supports both standing and seated operation to accommodate user preferences.

Operator Safety

- Manual handwheel lock secures the position of the specimen head
- Magnetic blade transfer tool supports safe removal of the blade from the holder, reducing risk of injury



- 1 Intuitive touch screen interface
- 2 User adjustable LED lighting
- 3 Cold Disinfection (Optional)
- 4 Light-touch handwheel
- 5 Comfortable form-fitting design
- 6 Motorized height adjustment (Optional)

Spacious Work Chamber

Large open chamber can accommodate many samples at once and provide better flexibility of movement for users. 18 tissue stations and one fast freeze peltier allow efficient sample preparation.



Cold Disinfection

Fast, safe and thorough disinfection of the cold cryochamber protects users.

To learn more about this revolutionary disinfection system visit www.thermoscientific.com/coh or scan the QR code.



Specifications

CryoStar NX50 Cryostat

Weight	441 lbs (200 kg)
Dimensions	Depth: 39.4" (100 cm)
	Width: 29.7" (75.5 cm)
	Height: 36.6" (93 cm) <i>fixed height model</i> ; 32.3 – 44" (82 – 112 cm) <i>adjustable range</i>
Chamber dimensions (D x W x H)	16.5 x 20.1 x 12.9" (42 x 51 x 33 cm)
Power requirements	100 Vac, 50/60 Hz, 10 A ±10%
<i>Dedicated line recommended</i>	110Vac - 120 Vac, 60 Hz, 10 A ±10%
	220Vac - 240 Vac, 50/60 Hz, 5 A ±10%
Fine section thickness range	0.5 - 100 µm
Trimming thickness range	5 - 500 µm
Vertical specimen stroke	2.5" (64 mm)
Horizontal knife movement	1.9" (48 mm)
Specimen orientation	x- and y- axes universal 8° with zero positioning; z-axis up to 360°
Specimen retraction	20 µm
Specimen temperature control	-43 °C ±2 °C at 20 °C ambient
Cryobar cooling	-57 °C ±3 °C at 20 °C ambient
Cryochamber	-25 °C ±2 °C at 20 °C ambient; continuously cooled
Knife holder	-27 °C ±2 °C at 20 °C to 30 °C ambient; continuously cooled
Defrosting options	Programmed / Immediate
Certifications	CSA, CE

Ordering Information

Description	Configuration	Order Number
NX50, 100-120 V	OP	957250L
NX50, 230 V	OP	957220L
NX50, 100-120 V	OPD	957100L
NX50, 230 V	OPD	957140L
NX50, 100- 120 V	OPV	957270L
NX50, 230 V	OPV	957200L
NX50, 110-120 V	OPH	957260L
NX50, 230 V	OPH	957210L
NX50, 100-120 V	OPHD	957110L
NX50, 230 V	OPHD	957150L
NX50, 100-120 V	OPVD	957120L
NX50, 230 V	OPVD	957160L
NX50, 110-120 V	OPHV	957230L
NX50, 230 V	OPHV	957170L
NX50, 100-120 V	OPHVD	957130L
NX50, 230 V	OPHVD	957240L

- O - Object Cooling**
- P - Peltier**
- H - Height Adjustment**
- V - Vacutome**
- D- Cold Disinfection**



Recommended Disposable Blades
Thermo Scientific MX35 Ultra blades provide consistent performance and durability under demanding research and clinical conditions.

www.thermoscientific.com/pathology

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