

Specifications

CryoStar NX50

Weight	200 kg (441 lbs)
Dimensions	Depth: 100 cm (39.4 in)
	Width: 75.5 cm (29.7 in)
	Height: 93 cm (36.6 in) <i>fixed height model</i> ; 82 – 112 cm (32.3 - 44 in) <i>adjustable range</i>
Chamber Dimensions (D x W x H)	42 x 51 x 33 cm (16.5 x 20.1 x 12.9 in)
Power Requirements	100Vac, 50/60Hz, 10A ±10%
<i>Dedicated line recommended</i>	110Vac - 120Vac, 60Hz, 10A ±10%
	220Vac - 240Vac, 50/60Hz, 5A ±10%
Fine Section Thickness Range	0.5 - 100 µm
Trimming Thickness Range	5 - 500 µm
Vertical Specimen Stroke	64 mm (2.5 in)
Horizontal Knife Movement	48 mm (1.9 in)
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 (-45.4°F) at 20°C (68°F) ambient
Cryobar Cooling	-57°C ±3°C (-70.6°F) at 20°C (68°F) ambient
Cryochamber	-25°C ±2°C (-13°F) at 20°C (68°F) ambient; continuously cooled
Knife Holder	-27°C ±2°C (-16.6°F) at 20°C to 30°C (68°F to 86°F) ambient; continuously cooled
Defrosting Options	Programmed / Immediate
Certifications	CSA, CE

Ordering Information

Description	Configuration	Order Number
NX50 220-240V, 50/60Hz	OP	957220
NX50 220-240V, 50/60Hz	OPH	957210
NX50 220-240V, 50/60Hz	OPV	957200
NX50 220-240V, 50/60Hz	OPD	957140
NX50 220-240V, 50/60Hz	OPDV	957160
NX50 220-240V, 50/60Hz	OPHV	957170
NX50 220-240V, 50/60Hz	OPHD	957150
NX50 220-240V, 50/60Hz	OPHVD	957240
NX50 100-120V, 50/60Hz	OP	957250
NX50 100-120V, 50/60Hz	OPV	957270
NX50 100-120V, 50/60Hz	OPD	957100
NX50 100-120V, 50/60Hz	OPDV	957120

Ordering Information

Description	Configuration	Order Number
NX50 110-120V, 60Hz	OPH	957260
NX50 110-120V, 60Hz	OPHV	957230
NX50 110-120V, 60Hz	OPHD	957110
NX50 110-120V, 60Hz	OPHVD	957130
NX50 100V, 50/60Hz	OPH	957180
NX50 100V, 50/60Hz	OPHV	957190
NX50 100V, 50/60Hz	OPHD	957080
NX50 100V, 50/60Hz	OPHVD	957090

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



Thermo Scientific CryoStar NX50
Cryostat

Designed for performance
created for comfort

Exceptional sectioning quality • Ergonomic design • Energy efficient



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Anatomical Pathology	Otto-Hahn Strasse 1a 69190 Walldorf GERMANY	+49 (0) 6227-8360
	4481 Campus Drive Kalamazoo, MI 49008 UNITED STATES	+1 (800) 522-7270

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Comfort and quality

for cryotomy applications

Exceptional Sectioning Quality

- Stable, actively cooled knife holder delivers homogenous and consistent section thickness
- Specimen head moves in vertical orientation only, for improved cutting accuracy
- Rapid response temperature controlled object head maintains accurate specimen temperature to deliver high quality sections
- 18 position cryobar with additional fast freeze station rapidly cools specimens to $-57^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ($-71^{\circ}\text{F} \pm 5.4^{\circ}\text{F}$) maintaining tissue morphology by restricting ice crystal formation
- Optional vacutome aids in delivering high-quality sections by stretching the sections to remove wrinkles

Superior Section Quality

Achieved by minimizing vibration to deliver a smooth movement of the specimen across the blade.

- Stable blade holder for mounting blade
- Dedicated low and high-profile blade holders
- Steady controlled horizontal advance of blade to specimen



Convenience and Ease of Use

- Touch screen interface with intuitive software is the single point of control for the Thermo Scientific™ CryoStar™ NX50 cryostat delivering quick and streamlined operation
- Standby mode reduces energy consumption and background noise
- Choice of immediate or scheduled defrost cycle
- Optional vacutome cleaning mode and hose extension supports safe and speedy removal of debris and sectioning waste
- 1 Litre disinfectant reservoir sufficient for up to 13 Sanosil® disinfection cycles

Spacious Work Chamber

Large 42 litre open cryochamber provides enhanced storage capacity within a larger working area, enabling greater flexibility of movement for users.

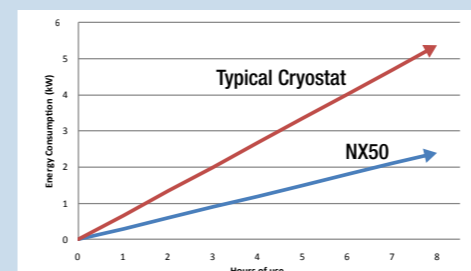


- 1** LCD touch-screen
- 2** User adjustable LED lighting
- 3** Optional Cold Disinfection
- 4** Light-touch handwheel
- 5** Comfortable form-fitting design
- 6** Motorized height adjustment (optional)

Energy Efficient - Environment Friendly

Low power rating of 0.3kw/hr.

Automatic transition to standby mode after a one hour period of inactivity.



50% less energy consumption relative to comparative cryostat models

Find out how you can benefit from this and other Thermo Scientific products. Contact your local Thermo Scientific product representative today for an evaluation.

User Comfort

- Body contoured design positions the user closer to the chamber maintaining comfortable posture during times of heavy use
- Optional motorized height adjustment allows each Operator to customize the CryoStar NX50 height to suit their needs and comfort level whether seated or standing
- Large open work chamber with adaptable LED directed lighting for enhanced visibility
- Light touch handwheel requires minimal force to operate, limiting associated repetitive motion discomfort



Integrated Motorized Height Adjustment

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

Operator Safety

- Manual handwheel lock secures the position of the specimen head
- Optional proprietary Cold-D disinfection of the cryochamber which has been certified as an effective method against an extensive range of biological pathogens
- Magnetic blade transfer tool supports safe removal of the blade from the holder, reducing risk of injury
- Protective blade guard shields the operator's hands from the blade
- Optional vacutome collects and contains sectioning waste within filter bag

Rapid Cold-D Disinfection

Sanosil® mist is certified to effectively decontaminate the chamber within 50 minutes.

Go to www.thermoscientific.com/coh or scan the QR code to view Sanosil certification

