

### Specifications

Dimensions (D x W x H) (w/o handwheel)	29.9 x 25.19 x 45.3 in 76 x 64 x 115 cm
Weight:	315.2 lbs, 143 kg
Power Requirements	100 V, 50/60 Hz, 7 A, +/-10% 110 V - 120 V, 60 Hz, 7 A, +/-10% 220V - 240 V, 50/60 Hz, 4 A, +/-10%
BTU	1020 BTU/hour
Section Thickness Range	1 - 500 µm
Fine Section Thickness Range	1 - 100 µm
Fine Section Thickness Resolution	1 - 10 µm in 1 µm steps 10 - 20 µm in 2 µm steps 20 - 50 µm in 5 µm steps 50 - 100 µm in 10 µm steps
Trimming Thickness Range	5 - 500 µm
Trimming Thickness Resolution	5 - 30 µm in 5 µm steps 30 - 100 µm in 10 µm steps 100 - 200 µm in 20 µm steps 200 - 500 µm in 50 µm steps
Specimen Retraction (Return Travel)	20 µm
Chamber Temperature	Max. -35 °C +2/-1 °C (-31°F +3.6/-1.8 °F) at +20 °C / 68 °F room temp.
Cryobar Cooling (Peltier Element)	Max. -55 °C +/-2 °C (-67 °F +/-3.6 °F) at 20 °C / 58 °F ambient
Defrosting Options	Programmed / Immediate
Certifications	CSA, CE

### HM525 NX Cryostat Ordering Information

Description	Order Number
HM525 NX 100 V, 50/60 Hz; 110 - 120 V, 60Hz	956640
HM525 NX w/UV Disinfection 100 V, 50/60 Hz; 110 - 120 V, 60Hz	956641
HM525 NX 220 - 240 V, 50/60 Hz	956650
HM525 NX w/UV Disinfection 220 - 240 V, 50/60 Hz	956651

### HM525 NX Available Accessories

Description	Order Number
Standard Knife Carrier (for steel reusable knife)	705460
Disposable Blade Carrier EC70 (for high- low-profile disposable blades)	705630
Disposable Blade Holder EC (for high- low-profile disposable blades)	705470
Anti-roll Plate (for use with EC70)	449980
Anti-roll Plate (for use with EC)	449990
Specimen Chuck 20 mm	715700
Specimen Chuck 30 mm	715220
Specimen Chuck 40 mm	715230
Specimen Chuck 50 x 50 mm	715730
Specimen Chuck 55 x 55 mm	715740
Specimen Chuck 60 x 55 mm	715750
Specimen Chuck 75 x 55 mm	715760
Cryo Molds 10 mm	570400
Cryo Molds 15 mm	570380
Cryo Molds 22 mm	570390

### Recommended Disposable Blades

#### Thermo Scientific MX35 Ultra Blades

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



Thermo Scientific HM525 NX Cryostat

**Designed for performance**  
optimized for comfort

- Exceptional sectioning quality and reliability
- Intuitive user interface
- Enhanced ergonomics

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## Proven Quality and Reliability With An Ergonomic Upgrade

### User Friendly Touch Screen interface

- Icon driven interface allows intuitive operation of the cryostat
- Allows rapid selection and adjustment of functions.
- 10 minute specimen fast-freeze function can be accessed from the menu
- Chamber brightness can be adjusted to meet operator needs



### Enhanced Ergonomics

- Light-touch handwheel requires minimal force to operate increasing comfort
- Additional knee space to support comfortable seated operation
- Body contoured armrests improve posture and comfort during periods of prolonged use
- Large flat top to keep accessories readily available

### Operator Safety

- Mechanical handwheel lock completely immobilizes the specimen head
- Optional on-demand UV disinfection protects against surface contamination and occupational exposure to biological pathogens
- Stainless-steel chamber and smooth surfaces allows efficient cleaning of the chamber

### Minimal Service Downtime

- Easy to access modular components
- Built in alert system focuses user on any service needs
- USB port allows file transfer for troubleshooting

- |                                    |                            |
|------------------------------------|----------------------------|
| 1 Intuitive touch-screen interface | 4 Optional UV Disinfection |
| 2 Spacious flat storage area       | 5 Light-touch handwheel    |
| 3 Ergonomic armrests               | 6 Enhanced knee room       |

### Exceptional Sectioning Quality

- Reliable stepper motor technology delivers reproducible section thickness
- Chamber temperature control down to -35 °C to accommodate a wide range of specimens
- Automatic specimen retraction on return stroke protects specimen and reduces carry over artifacts
- Incorporating the trusted Thermo Scientific™ HM550 Microtome provides excellent control for superior sectioning results



### Efficient, High Throughput Cryochamber

- 27 cooled specimen positions, including 4 fast freeze, to keep up with heavy workloads
- The front of the microtome is a new design that stops build up of debris behind the microtome making it easier to clean
- Integrated peltier cools four fast-freezing stations to -55C to limit ice crystal formation within the specimen



### UV Disinfection (Optional)

- High intensity UV light delivers disinfection for peace of mind and enhanced germicidal activity
- Immediate or scheduled operation
- Alert screen indicates incomplete or interrupted disinfection cycle
- Adjustable disinfection time setting up to 300 minutes

