

**3**  
MINUTE  
COMPLETE  
DISINFECTION

**Thermo Scientific HM550 - Three Minutes To Control Infection Hazards**

**Laboratory enhancements with cold disinfection**

- 1) Workflow** – Protect users by disinfecting throughout the day, not just when time allows.
- 2) Throughput** – Less down time to disinfect, more sectioning time available.
- 3) Cost Containment** – Less down time means less labor time while reducing capital costs, maintenance and depreciation.

Shortcomings of Current Disinfection Methods	Benefits of Cold Disinfection
Manual Disinfection – Time consuming, disassembly, and hazard exposure.	No manual disinfection. Disinfects quickly when needed.
UV Disinfection – Only surface treatment, manual disinfection still required.	Leaves no untreated areas, extensive manual disinfection not required, 10 times faster.
Standard Fumigation – Often uses hazardous chemicals and takes at least 5 hours.	Certified safe, EPA approved and takes only three minutes.

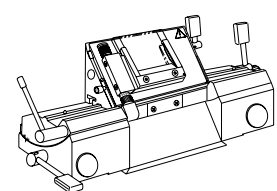
**Thermo Scientific Mirom HM550 Cryostat Specifications**

Dimensions (W, D, H)	25.2 (w/o handwheel) x 30 x 47.2 in (640 (w/o handwheel) x 760 x 1200 mm)
Weight	275 – 341 lbs. (125 – 155 kg) depending on model
Power supply	100 – 240 V 1.6 A +/-10% 50/60 Hz
Certificates	CE; c-CSA-us
Section thickness range	from 1 µm – 100 µm
FINE section thickness range	from 1 µm – 10 µm in 1 µm steps from 10 µm – 20 µm in 2 µm steps from 20 µm – 100 µm in 5 µm steps
Trimming section thickness range	from 5 µm – 500 µm from 10 µm – 100 µm in 10 µm steps from 100 µm – 200 µm in 20 µm steps from 200 µm – 500 µm in 50 µm steps
Max. specimen size	70 x 55 mm
Total horizontal feed	28000 µm
Vertical cutting stroke	60 mm
Sample orientation	8° XY, rotatable 360°. Includes 0 Position device.
Sample retraction during return stroke	40 µm, can be deactivated
Cutting window	Selectable
Coarse feed and reset	Three different specimen advance and retract speeds.
Three operating modes	Interval, single and continuous stroke

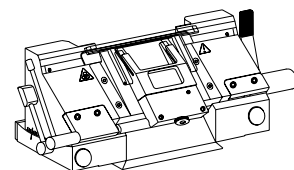
**Available Options**

Three minute cold disinfection	Fast, safe and complete disinfection.
Vacutome	Section stretching and trimmings disposal
Object (specimen) cooling	+10°C to -50°C
Sectioning Motor for automated cutting	Cutting Speed 0-250 mm/s
	Motorized sectioning controlled via foot pedal or button
	Motor brake and emergency stop switch for safe operation

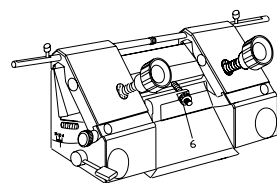
**Included Blade Holder Types**



**Disposable blade carrier EC**  
For high- and low-profile blades with angle adjustment. Includes anti-roll plate.



**Disposable blade carrier EV**  
For use with vacutome option. For high and low profile blades. Equipped with vacuum anti-roll hood to stretch sections and dispose of waste.



**Standard knife holder**  
For standard blades includes: angle adjustments, height adjustments and removable clamps. Includes an antiroll plate and precision dovetail guide.



**Recommend blades**  
The Thermo Scientific MB22 Premier disposable blade is ideal for cryostat sections. The MB22 has a steeper angle of 22° that allows thinner and more accurate sections. Item number 3050822 50/pack.

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**Anatomical Pathology**

4481 Campus Drive  
Kalamazoo, MI 49008  
USA  
(800) 522-7270

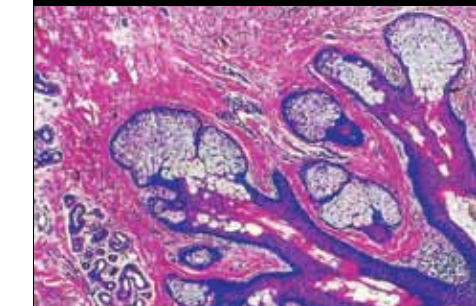
Robert-Bosch-Strasse 49  
69190 Walldorf  
GERMANY  
+ 49 (0) 6227-8360

[www.thermo.com/pathology](http://www.thermo.com/pathology)

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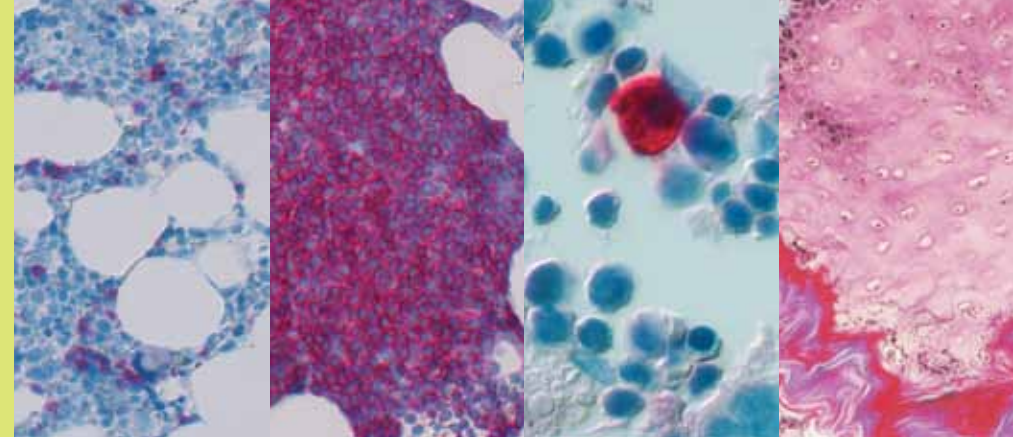
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**Thermo Scientific HM550 Cryostat**  
**Three Minute Complete Disinfection**

# Thermo Scientific HM550 Cryostat

Unmatched user safety, optimal morphology and efficient workflow



## Three Minute Complete Disinfection

**The new cold disinfection system reduces health risks without compromising workflow.**

Cold disinfection is revolutionizing cryostat safety and workflow. This patented\* system is fast, safe and complete, ensuring that staff safety is never compromised while sectioning.

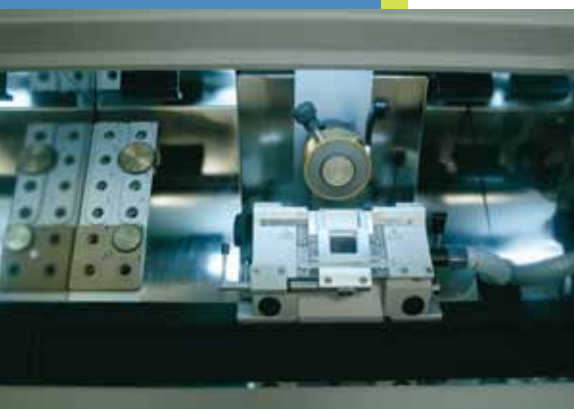
### New cold disinfection on the Thermo Scientific Microm HM550

- **Fast** – The entire process is only three minutes and can be used throughout the day between suspect samples.
- **Safe** – H<sub>2</sub>O<sub>2</sub> based disinfectant is EPA approved and safe for staff.
- **Complete** – Well documented disinfection of the entire cryochamber. Eliminates a wide range of infectious agents including TB and HIV (latest list of pathogens available upon request). A full cryostat break down for manual disinfection is not required.

To learn more, see our video at [www.thermo.com/colddisinfection](http://www.thermo.com/colddisinfection).



\*Patent Application Pending



### Unmatched Safety

- New fast, safe and complete disinfection in three minutes.
- Automatic Cryo Approach brings the specimen to the knife edge with the touch of a button.
- Optional vacutome captures debris and eliminates airborne pathogens.

### Optimal Morphology

- Patented vacutome system integrated into the blade holder provides wrinkle free sections and disposes of waste (optional).
- Advanced stepper motor and cross-roller bearings provide consistent section thickness that does not lose calibration over time.
- 12 fast-freezing stations: 8 stations maintain -40°C and 4 snap-freeze stations reach -60°C.

### Efficient Workflow

- The HM550 is the only cryostat that can be completely disinfected between samples without impeding workflow or staff safety.
- Automatic Cryo Approach System easily saves time.
- Cool air temperature is maintained around the specimen, blade holder and fast freezing rails. This ensures consistent temperature even with the chamber door open during prolonged sectioning.

### Best in Class Ergonomics

- Comfortable operation while sitting or standing.
- Efficient chamber configuration with large storage spaces.
- Intuitive keypad and display. Controls are outside the cryochamber.



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