



**MILESTONE**  
H E L P I N G  
P A T I E N T S



## REVOLUTIONIZE YOUR RAPID FREEZING PROCESS

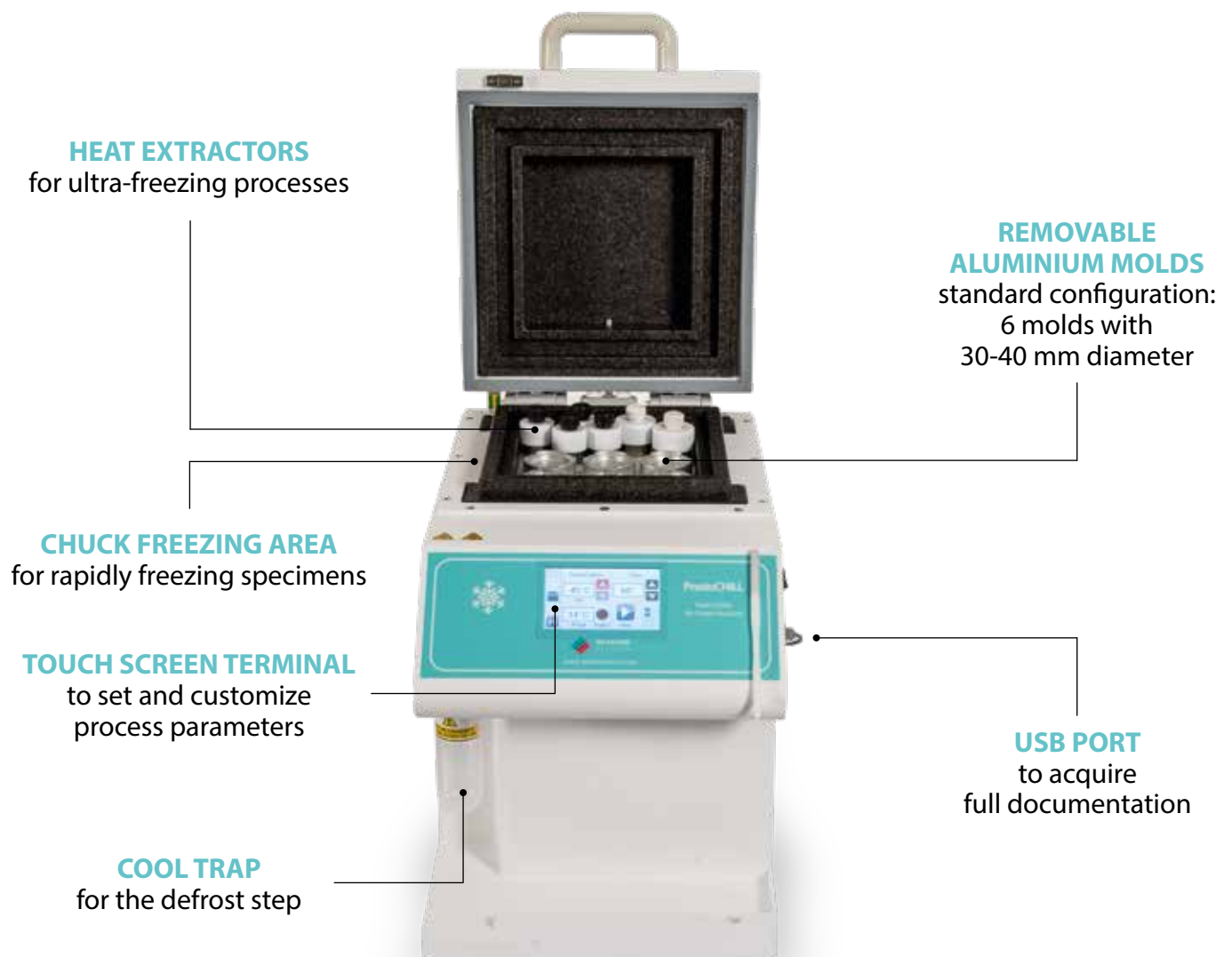


### **PrestoCHILL**

Flash Chiller for  
High Quality Frozen Sections

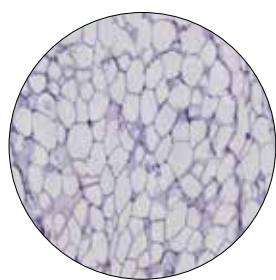
# NO COMPROMISE FOR YOUR FROZEN SECTIONS

The diagnosis derived from frozen section procedures offers vital insights to surgeons, shaping their approach and strategy through the operation. When conducting frozen sections, pathologists are working with highly delicate tissues, including the intricate honeycomb structures of breast tissues or fatty lymph nodes. The primary concern revolves around the potential for poor-quality results, largely stemming from the **formation of ice crystals within the tissue due to water content**. These ice crystals significantly alter and distort the cellular structure and morphology of the tissue, **compromising the accuracy of diagnostic assessments**. To address this critical issue, Milestone introduces PrestoCHILL, an advanced cryoembedding system designed to provide pathologists with frozen sections of permanent-like quality. This technology **reduces freezing time to just 30 seconds and prevents ice crystal artifacts through ultra-fast freezing**.

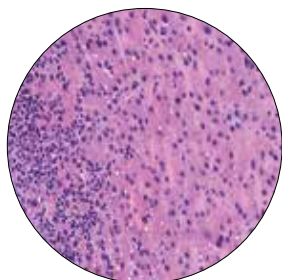


## | PERMANENT-LIKE QUALITY

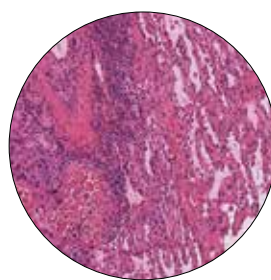
With PrestoCHILL, even fatty tissues can be effortlessly frozen without compromising their delicate structures, **ensuring consistently high-quality results**. The **Ultra-Fast Freezing Technology** rapidly freezes samples at  $-40^{\circ}\text{C}$ , effectively eliminating freezing artifacts like ice crystal formation, tissue structure compression due to extremely low temperatures and tissue retraction. Furthermore, Milestone introduces an innovative technique, the **Face-Down Embedding Technique**. This patented method allows for direct contact of the sample with the cold metal, optimizing the freezing time. As a result, users can achieve perfectly flat plane surfaces, reducing the need for trimming and ensuring smooth cutting in the cryostat.



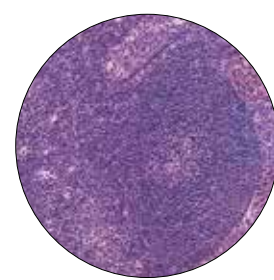
*Human breast*  
40x



*Human liver*  
40x



*Human lung*  
20x



*Human lymph node*  
20x

## | TIME SAVINGS

The system can freeze six biospecimens **simultaneously in just 30 seconds**. The freezing workflow is further enhanced using **Milestone's Cryoembedding Compound (MCC)**, a proprietary solution which has been specifically developed for optimal support during cryotomy. MCC has been specially formulated with a lower viscosity that flows easily into the cryomolds and improves adhesion to the chuck.



# OPTIMIZED WORKFLOW FOR ALL TISSUE TYPES

## | HIGH FLEXIBILITY

PrestoCHILL ensures standardized freezing at  $-40^{\circ}\text{C}$  for **a large variety of tissues**, including those that are most difficult to section in the cryostat, such as breast and lymph nodes. PrestoCHILL **molds are available in different sizes and designs** to adapt the freezing workflow to different chucks and tissue types.



## | SMART USER INTERFACE

The smart interface allows users to **effortlessly set and customize the freezing process parameters** according to their specific needs. Easy to use and highly intuitive, the software provides a straightforward experience. The USB port allows event logs to be downloaded for complete process documentation.



## | SAFE & ENVIRONMENTALLY FRIENDLY

The technologically advanced stirling chiller uses helium gas as a refrigerant in a hermetically sealed stainless-steel chamber. The innovative Face-Down Embedding Technique eliminates the need for a conventional compressor, resulting in the **elimination of CFCs (chlorofluorocarbons), liquid nitrogen,  $\text{CO}_2$  and isopentane**. Moreover, an integrated HEPA filter enhances the system, and the antimicrobial powder coating actively protects against microbial growth and makes cleaning simple.





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**PERMANENT-LIKE QUALITY**

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**TIME SAVINGS**

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**SAFE & ENVIRONMENTALLY FRIENDLY**

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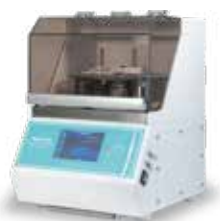
**SMART USER INTERFACE**

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**HIGH FLEXIBILITY**

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## | OTHER MILESTONE SOLUTIONS FOR FROZEN SECTIONS



### **PRESTO PRO**

Processor-Stainer  
for High Quality Frozen  
Sections



### **FlashFREEZE**

Flash Freezer  
for Biobanking



### **FineFIX Module**

Enhanced Manual Staining  
for Frozen Sections

## **MILESTONE HELPING PATIENTS**

Milestone is a company headquartered in Northern Italy and was founded in 1988 as a corporation specializing in advanced microwave instrumentation for analytical and organic chemistry labs. As the technology leader in pre-analytical instrumentation, Milestone supports a worldwide installed base of over 25.000 systems. In 1994, Milestone established a separate Medical Division to expand our expertise in the crucial pre-analytical phase to the world of histopathology. We pioneered the first microwave rapid tissue processor for same-day diagnosis and the first macro-digital system to enhance the grossing step. Today, our rapid tissue processors, macro-digital imaging systems, and pre-analytical instrumentation are used every day in the most renowned clinical and research laboratories around the world. But we never stop. We continue to lead the industry with constant innovation and improvement. Driven by the leading principle we live by, Helping patients.

*Specifications are subject to change without notice*

### **MILESTONE**



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