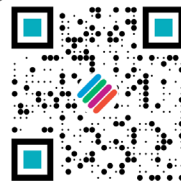




**MILESTONE**  
H E L P I N G  
P A T I E N T S



# FlashFREEZE

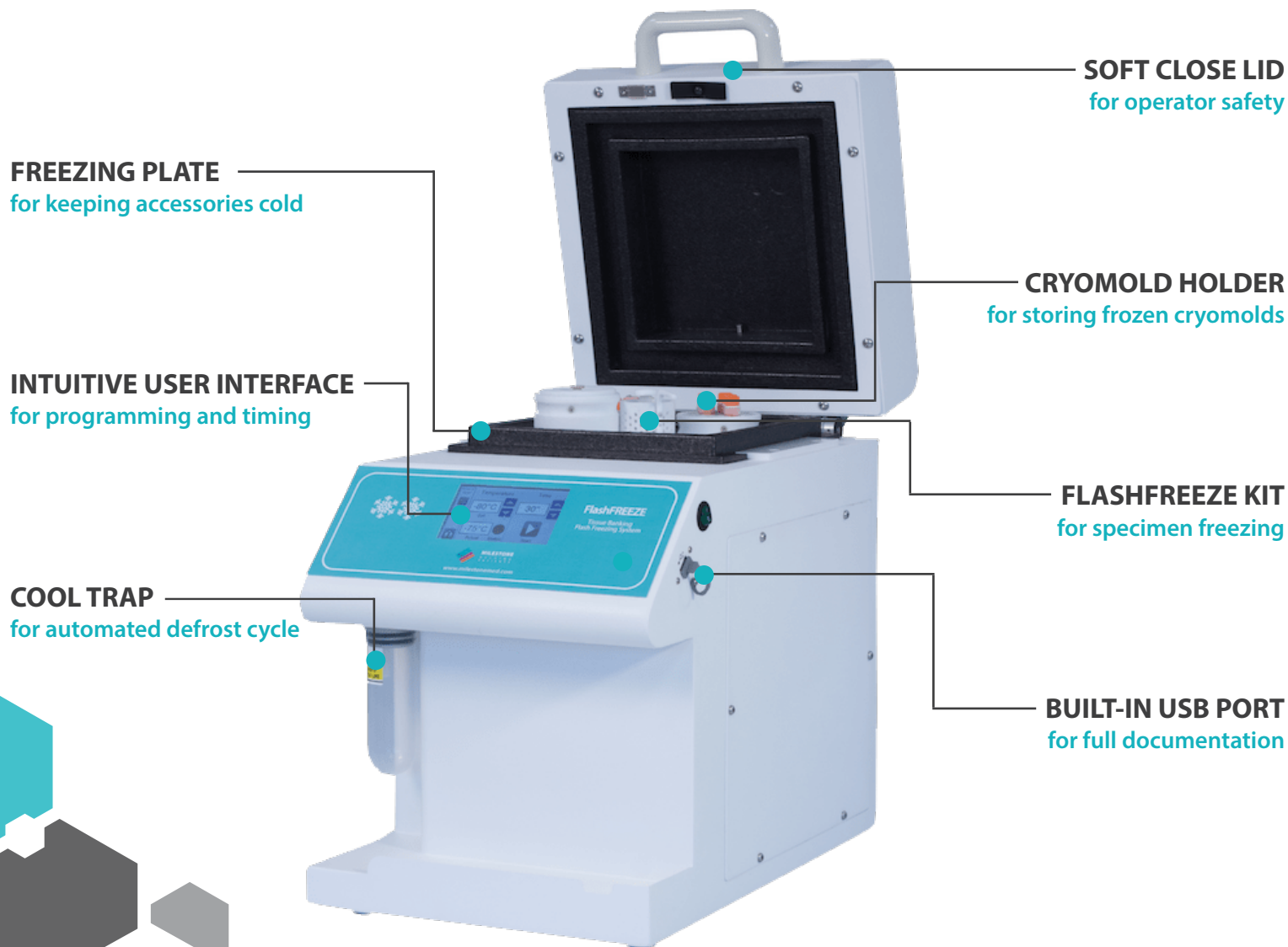
Standardized and Documented Protocols for  
Enhanced Biobanking Procedures



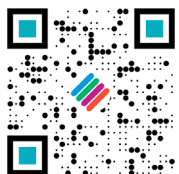
Enhanced  
Tissue Banking

# FlashFREEZE

FlashFREEZE is an innovative benchtop unit developed to standardize the flash freezing of biospecimens. With FlashFREEZE, it is now possible to carry out evidence-based freezing protocols on biospecimens with the full documentation needed for QA purposes. The unique combination of a non-toxic heat transfer fluid with a state-of-the-art Stirling cooling device at  $-80^{\circ}\text{C}$  allows for standardized and documented flash freezing protocols. With multiple configurations available, FlashFREEZE can be adapted to suit individual lab requirements. All of this, plus the added benefit of operation free from toxic, dangerous reagents such as isopentane and liquid nitrogen.

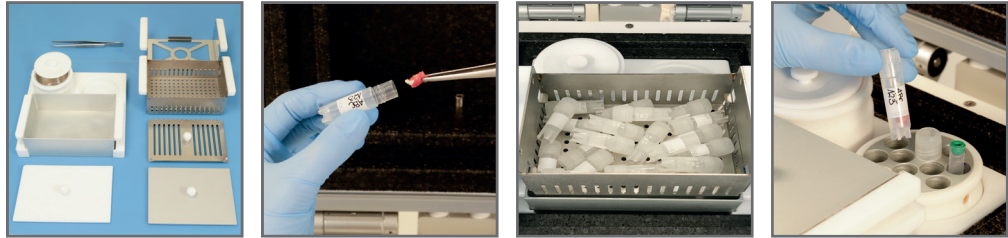


SEE FLASHFREEZE IN ACTION



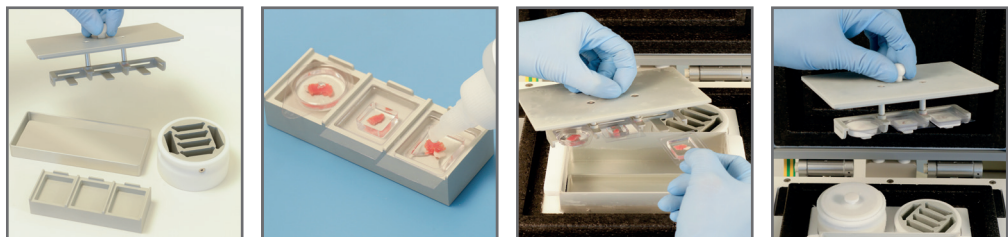
## 1 FLASH FREEZING OF RANDOM CRYOVIALS

The random cryovial kit comes standard with FlashFREEZE and allows users to carry out the freezing of up to 25 cryovials simultaneously. This kit can accommodate vials up to 50ml in size.



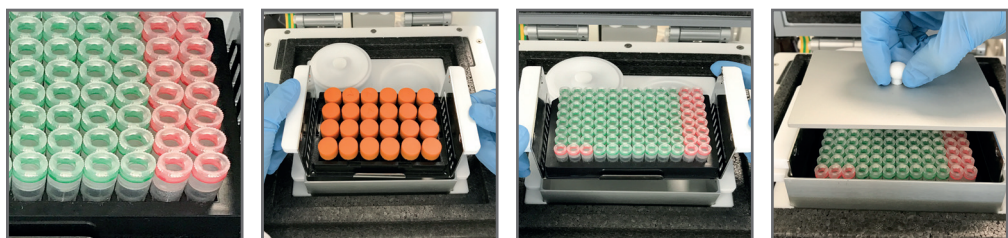
## 2 FLASH FREEZING OF CRYOMOLDS

The optional cryomold kit allows users to carry out standardized flash freezing. The cryomold kit allows for freezing up to three specimens at a time and can accommodate various molds.



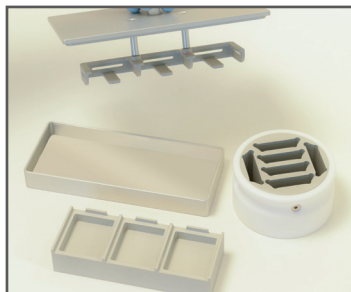
## 3 FLASH FREEZING OF MICROTITER PLATES

The FlashFREEZE kit for microtiter plates is an optional set-up that includes a rack holder with the ability to hold 24, 48, or 96 well plates. This allows for a more structured freezing.

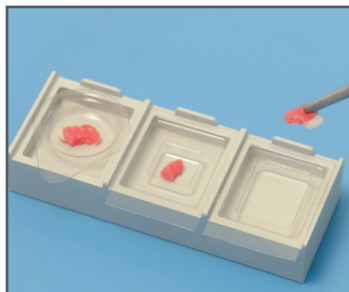




# HOW IT WORKS



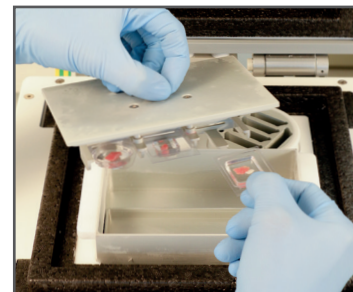
Use the cryomold kit (optional) to carry out standardized flash freezing



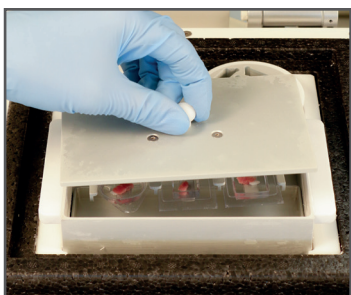
Set the cryomolds in the holder and place the specimens in each cryomold



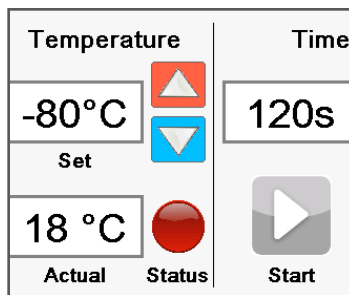
Using Milestone's MCC (cryoembedding compound), fill each cryomold to the top



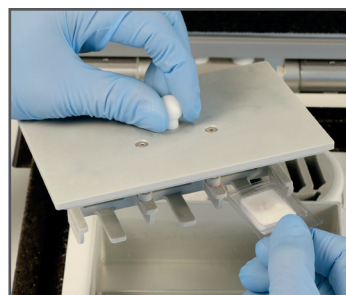
Position each of the cryomolds into the holder by gently sliding them in



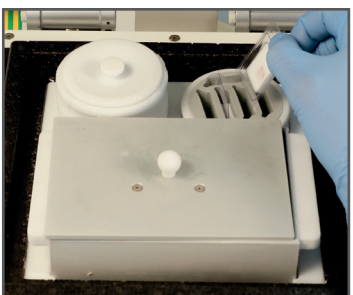
Place the slide-in holder on top of the tank. The fluid inside will freeze the mold



Choose the time on the screen and start the automatic timer



Take out the holder and carefully slide each of the cryomolds from the holder



Once removed, you can store up to 6 cryomolds in the holder inside the chamber

## KEY BENEFITS

### ✓ FLEXIBILITY & COMPATIBILITY

Compatible with cryovials, cryomolds, and microtiter plates to suit lab's individual needs. Can hold a wide range of specimen vials.

### ✓ OPERATOR SAFETY

Designed to operate without the use of isopentane or similar extremely toxic and dangerous fluids, and with an on-board HEPA filter for added safety.

### ✓ FULL AUTOMATION

Has programmable freezing temperatures, down to -80°C and also programmable times for the step-down freezing step.

### ✓ QUICK OPERATION

The unit takes only 1 hr 40 minutes to go from room temperature to the standard operating temperature of -80°C. Biospecimens are frozen in 60-150 seconds.



### US Headquarters

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