

Automated, Water-free Thawing Systems

Safe thawing and advanced transport solutions for cryopreserved biologic materials

ThawSTAR Automated Thawing Systems provide standardized and reproducible thawing of biologics frozen in cryovials, cell therapy vials, or cryobags, replacing manual water baths. The ThawSTAR technology provides sensor-based thawing algorithms designed to provide for consistent thawing outcomes.



Simply insert a frozen cryogenic bag or vial and retrieve it at the end of the thaw cycle.

ThawSTAR Benefits

Automation and Standardization – consistent thawing results through reproducible algorithms that eliminate manual human processes.

Reduced Contamination Risk – water-free thawing eliminates sample contamination from lack of or infrequent tool maintenance and non-sterile water.

Precision Thawing – algorithm optimization services by BioLife technician tailored to maximize cell health and function based on unique and specific cryopreservation parameters.

Qualifiable – ThawSTAR Systems are qualifiable in a QxP setting and can be scaled into POC facilities.

Available in four models to support R&D to commercial manufacturing and point of care.



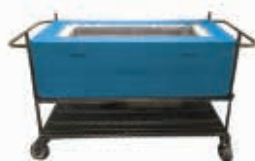
| | ThawSTAR® CFT1.5 | ThawSTAR® CFT2 | ThawSTAR® AT6 | ThawSTAR® CB |
|--------------------------------|--|--|--|--|
| Thaw Type | 1.5 mL cryogenic vial | 1.8 – 2.0 mL cryogenic vial | 6.0 mL AT-Closed Vial® | 25-1000 mL cryobag |
| Vial Compatibility | Nalgene® 5000-1020 | Compatible with major vial manufacturers | Aseptic Technologies | cryobags from OriGen®, Charter® and Miltenyi® |
| Capacity | One vial | One vial | One vial | One cryobag |
| Fill Volume | 0.5 – 1.5 mL | 0.8 – 1.5 mL | 2.0 – 6.0 mL | |
| Thaw Time | Less than three minutes | Less than three minutes | Approximately 3 – 8 minutes | 2-8 minutes (depending on fill volume) |
| Dimensions | 11.0 cm x 14.5 cm (5.7 in x 4.3 in) D x H | 11.0 cm x 14.5 cm (5.7 in x 4.3 in) D x H | 11.0 cm x 14.5 cm (5.7 in x 4.3 in) D x H | 19.5 × 38.5 × 45 cm (8 × 15 × 18 in) H x W x D |
| Compliance | CE mark (EMC and Safety), EN 60601-1-2, EN 61010-1, RoHS, WEEE | CE mark (EMC and Safety), EN 60601-1-2, EN 61010-1, RoHS, WEEE | CE mark (EMC and Safety), EN 60601-1-2, EN 61010-1, RoHS, WEEE | |
| Voltage | US, EU, UK | US, EU, UK | US, EU, UK | |
| Input Voltage | AC 100 - 240V | | | 100-120V, 200-240V |
| Power Requirements | Maximum 3A | | | Maximum 8A |
| Preinstalled Thawing Protocols | NA | | | 12 |
| File Output | | | | CSV format |
| Accessories | | | | ThawSTAR CB Barrier Bag (25, 50, 250, 500, 750, and 1000 mL) |

ThawSTAR BioT™ Transporters

A breakthrough portable solution for handling and transporting valuable temperature-sensitive frozen biosamples.



BioT™ ULT Transporter
< -70°C to -50°C Dry Ice Based



BioT™ ULT Mobile Workstation
< -70°C to -50°C Dry Ice Based



BioT™ ULT LN2 Transporter
< -150°C Liquid Nitrogen