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CYT□ S/\/ER Controlled-Rate Freezer Controlle

Reliable, Safe, and Efficient Freezing Without Liquid Nitrogen

Freeze your valuable samples down at controlled rates to ultra-low temperatures without the hassle and expense of liquid nitrogen or dry ice. Get feedback on the temperature of your samples in real time and with intuitive temperature reports. Cut down on downtime between freeze cycles to maximize your sample freezing throughput.



Liquid Nitrogen-Free

Freeze cryovials and blood bags without having to resupply or handle hazardous liquid nitrogen, and without the risk of LN2-bourne mycoplasma contamination.

Effortless Control

Program and save your desired freezing pattern and generate temperature reports with the built-in touch panel, giving you complete control and visibility throughout your cryopreservation.

Efficient Workflow

Minimize downtime after freezing with the CytoSAVER's built-in heater, warming it back up to starting temperature in minutes to optimize your freezing.

Achieve consistent and efficient cryopreservation down to -80 °C to ensure the integrity and viability of your stem cells, immune cells, blood samples, and vaccines with the compact CytoSAVER Controlled-Rate Freezer, the cryopreservation expert's partner in research.

The CytoSAVER is great for cGMP applications. Ask for CytoSAVER models that comply with FDA Title 21, CFR Part 11. IQ/OQ and validation are available upon request as well.

Features



No liquid nitrogen, no dry ice

The hassle and cost of handling and resupplying hazardous materials for cryopreservation are a thing of the past. The CytoSAVER uses innovative Stirling coolers to contact-freeze your samples down to ultra-low temperatures.

Programmable freeze patterns

With its easy-to-use touch screen, you can set your CytoSAVER to freeze samples anywhere from room temperature to -80 °C. Freeze rates can be as slow as 0.1 °C per minute, and up to 3 °C per minute. Include hold steps in the freeze cycle to let cells nucleate.

Intuitive user interface

Track the temperature of your samples as you freeze them with the CytoSAVER's temperature reporting using plate and sample temperature probes. Export temperature logs to your external memory drive as a PDF graph or as CSV data points.

Versatility and flexibility

Freeze tissue, cells, and cultures in cryovials, blood bags, or both at the same time in the CytoSAVER's customizable freezing chamber. The vial rack accessories are great for freezing 81 or 171 cryovials of 2 mL capacity at once.

Cost and space saving

With its compact design, the CytoSAVER fits on a standard benchtop and doesn't need a constant supply of expensive liquid nitrogen or dry ice. The convenient handle at the top (FZ-2100 and FZ-2200 only) also make it easy to carry.

Mycoplasma-free peace of mind

Cryopreserve biological samples in a sterile environment without the risk of LN2-bourne mycoplasma contamination with the CytoSAVER, ideal for clean rooms and isolators.

Optimized workflow

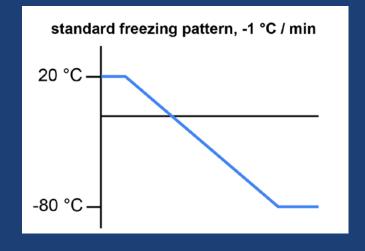
Along with its high capacity, the CytoSAVER also has a built-in heater designed to return its freezing chamber to starting temperature, getting it ready for the next freeze cycle for quick turnaround.

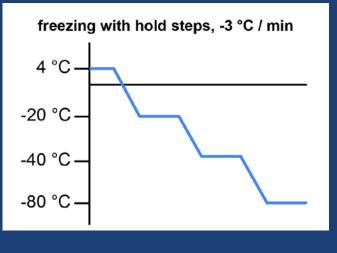


| Specifications | Medium CytoSAVER | Medium CytoSAVER (cGMP) | Large CytoSAVER | Large CytoSAVER (cGMP) |
|--|---------------------|-------------------------------|--------------------|------------------------------|
| Model # | FZ-2100 | FZ-2200 | FZ-3100 | FZ-3200 |
| 2 mL cryovial capacity | 81 | | 171 | |
| 250 mL blood bag capacity | ~2 | | ~4 | |
| Customizable vial rack? | Yes | | | |
| Freezing chamber internal dimensions (cm) W x L x H | 17.4 x 13.2 x 6.5 | | 30.0 x 13.2 x 5.8 | |
| External dimensions (cm) W x L x H | 47.3 x 33.0 x 45.5 | | 51.0 x 42.0 x 58.0 | |
| Weight (kg) | 17 | | 30 | |
| Lower limit temperature (°C) | -80 | | | |
| Freeze rate (°C / min) | min0.1, max3 | | | |
| AC power supply | 100-240 V, 50/60 Hz | | | |
| Power consumption (W) | max. 150 | | max. 300 | |
| FDA Title 21 compliant? | No | Yes | No | Yes |
| IQ/OQ and validation? | No | Yes | No | Yes |

Note: The CytoSAVER is not intended for long term sample storage.









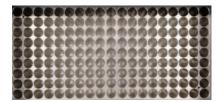
Accessories



Medium cryovial rack

FB-2000 Capacity: 81 x 2 mL cryovials Compatibility: FZ-2100, FZ-2200

Customizable to your cryopreservation specifications, including cryovial capacity and size, simultaneous freezing with other types of containers, etc.



Large cryovial rack

FB-3000 Capacity: 171 x 2 mL cryovials Compatibility: FZ-3100, FZ-3200

Customizable to your cryopreservation specifications, including cryovial capacity and size, simultaneous freezing with other types of containers, etc.



IQ/OQ and validation

FO-0001 Compatibility: FZ-2200, FZ-3200

Compliance with FDA Title 21, CFR Part 11 for cGMP applications. The CytoSAVER will be validated using calibrated instrumentation, including thermometers, timers, etc.



CryoTrack Frozen Sample Transport Series

-60°C Anytime, Anywhere

The reliable, safe, and convenient CryoTrack Series keeps your valuable frozen samples at stable, ultralow temperatures during transport or shipping with cutting-edge freeze packs without the need for liquid nitrogen, dry ice, or electricity.

Reliable Transport

Ensure your samples stay at a stable -60 °C for 12+ hours without needing liquid nitrogen, dry ice, or electricity

Safe Handling

Transport samples without handling hazardous materials, minimizing contamination risks and maximizing viability

Adaptable Configuration

Customize your sample transportation for your specific needs, from cryovials to bags to bottles and anything in between



CryoTrack Porter





CryoTrack Carrier

CryoTrack Station

The CryoTrack Series come in three great sizes: the Porter, Carrier, and Station are perfect for your sample transport needs. Add on extra freeze packs that will keep ultra-low temperatures for hours, or use the handy cooling blocks to make frozen cryovial and bottle transport a breeze.





STEP 1: CUSTOMIZE

Configure the CryoTrack to fit your sample transport needs.

STEP 2: LOAD

Store any kind of sample from cryovial racks to bags and bottles.

STEP 3: GO!

Transport your samples long distance at -60°C for 12+ hours.







Long-lasting ultra-low temperatures

With its vacuum-insulation and cutting-edge phase change material freeze packs, the CryoTrack keeps frozen samples at ultra-low temperatures for hours without electricity, dry ice, or liquid nitrogen. Maintain -60 °C for 5+ hours with the CryoTrack Porter, 12+ hours with the CryoTrack Carrier, and 18+ hours with the CryoTrack Station.

Adaptability and flexibility

Configurable freeze packs and vacuum insulation material keep your samples frozen in the CryoTrack Series. Use the frames in your CryoTrack Station to customize the inner chamber to fit your specific sample containers, like cooling blocks, cryovial boxes, serum bottles, and cryobags.

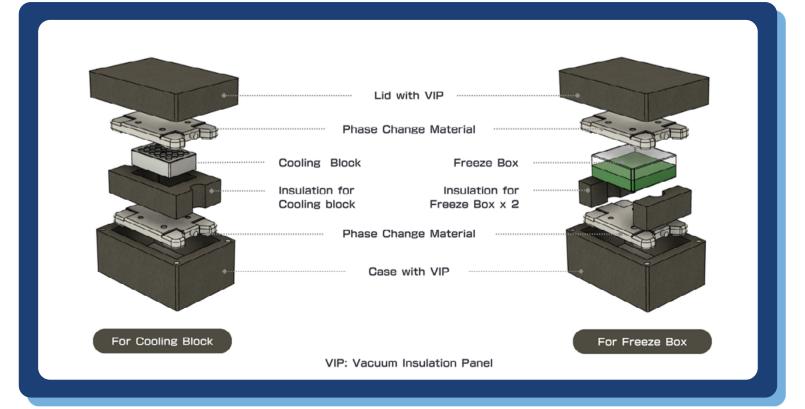
Convenience and ease of use

The CryoTrack Series feature magnetic lids for easy sample access, and fit easily in standard luggage for long distance travel. The CryoTrack Carrier also has a window to help you keep track of sample temperatures with your logger (not included).



Configurations

CryoTrack Porter



CryoTrack Station

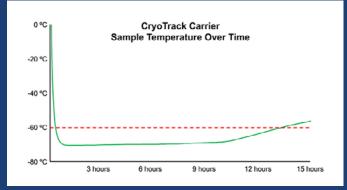


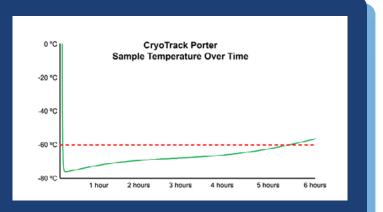


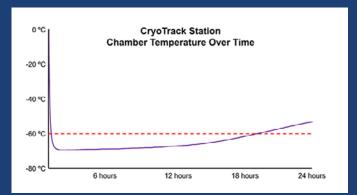
| Specifications | CryoTrack Porter | CryoTrack Carrier | CryoTrack Station | | |
|---------------------------------------|---------------------|----------------------|----------------------|--|--|
| Model # | ET-CTP1 | ET-CTC1 | ET-CTS1 | | |
| Freeze pack capacity | 2 | 6 | 16 | | |
| -60 °C maintenance (hours) | 5+ | 12+ | 18+ | | |
| Internal dimensions (cm) W x L x H | 22.5 x 14.0 x 10.8 | 22.5 x 20.0 x 15.0 | 39.0 x 20.0 x 12.0 | | |
| External dimensions (cm) W x L x H | 28.0 x 19.0 x 16.0 | 32.5 x 30.0 x 27.0 | 60.0 x 41.0 x 28.0 | | |
| Empty weight (kg) | 0.4 | 3.8 | 8.8 | | |
| Magnetic lid? | Yes | | | | |
| Temperature logger window? | No | Yes | No | | |
| Chamber frame and plates? | No | No | Yes | | |
| Shoulder strap? | No | Yes | Yes | | |

Temperature Graphs

Keep your samples at ultra-low temperatures for hours without liquid nitrogen, dry ice, or electricity. The insulation and freeze packs of the CryoTrack Porter, Carrier, and Station will maintain -60 °C or below for over 5, 12, and 18 hours, respectively.









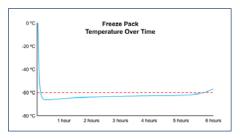
Accessories



Freeze pack

CV-70 Compatibility: all CryoTrack models

Made of PATTHERMO Phase Change Material, these freeze packs can be frozen in your ULT freezer and will maintain -60 °C for 2 hours (with one pack), or for over 5 hours (with two packs).





Cryovial cooling block

ET-SB24 Capacity: 24 x 2 mL cryovials Compatibility: all CryoTrack models

Cool and transport up to 24 cryovials of 2 mL capacity in this SBS-standard block without having to handle frozen vials individually.



Cryovial and bottle cooling block

ET-SB1-8 Capacity: 8 x 2 mL cryovials + 1 x 125 mL bottle Compatibility: all CryoTrack models

Cool and transport up to 8 cryovials of 2 mL capacity and 1 bottle of 125 mL capacity in this SBS-standard block without having to handle frozen vials and bottles individually.



Cooling block grip ET-SBBK Compatibility: cryovial cooling block

Handle the cryovial cooling block safely with this grip, to make your frozen sample transport a breeze.



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