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MVE Chart Tech Tips

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February, 2012

PRODUCT INFORMATION

Chart MVE Cryo-Cart

MVE CryoCarts are designed for the safe loading of biological samples into canes, boxes, racks or frames. When used as a portable workbench, the unit will provide a safe and controlled environment for your samples for up to eight hours with the lid open. MVE CryoCart is ideal for transporting large quantities of samples from one tank to another within the same facility. These high-efficiency carts are the safest and most convenient way to protect the viability of your samples! Contact Chart for product details and information.



Optional Step Assembly for the MVE 800 -190°C High Efficiency Freezer

Chart offers an optional step assembly for the MVE 800 -190°C High Efficiency Freezer allowing for easy insertion and retrieval of freezer racks. This provides an easy and safe way to perform regular inspection and maintenance

safe way to perform regular inspection and maintenance service. Contact Chart for product details and information.



Upcoming Temperature Probe Change

Beginning in March, all MVE freezers will be equipped with two 65 inch (165 cm) long temperature probes.

Consolidating the 44 inch (112 cm) and 96 inch (244 cm) long probes to one length that works with all freezer models will simplify installation, maintenance, and service part inventory. [Please click here to read more about this change.](#)

HELPFUL HINTS / FAQs

Sanitizing and Decontaminating Chart Aluminum and MVE Dewars

MVE aluminum dewars are constructed with an aluminum inner, which utilizes a fiberglass neck support. The stainless units are constructed with an inner entirely fabricated from stainless steel sheets. Any cleaning solution that does not react with aluminum or stainless can be used in the sanitation process. In most cases, many household detergent or mild soap solutions may be suitable. The U.S. Custom Service uses a solution called EXPOR for incoming shipments from abroad. This is mixed 9 parts water mixed with sodium chloride and lactic acid. As mentioned above, however, most any household cleaning solution can be used. These include bleach, detergents, and mild soaps. Other cleaners and disinfectants that can be safely used include hydrogen peroxide, chlorine/water and denatured alcohol.

NOTE: DO NOT USE ANY PETROLEUM BASED CLEANING SOLUTION.

After using a cleaner, it is important that the inner vessel is thoroughly rinsed with water and all cleaner residues have been removed. Spraying the solution into the inner vessel is preferred, although agitation of the solution inside the inner will suffice. Vapor shippers and Doble units will require filling the inner to its full capacity with cleaning mixture and then rinsing. Allow the unit to dry thoroughly before putting into service. With vapor shippers, we suggest placing the dewar on end (inverted) to drain and dry. The process is not intended for use in older vapor shipper models manufactured prior to 1994. The generally accepted practice of using 10% chlorine bleach with 90% water solution still holds as the best method for decontamination. However, with some of the bovine and swine virus strains showing up today, it is the conclusion of the agricultural professors at the University of Minnesota and Texas A & M that an increased mixture of chlorine bleach to 30% and 70% water will kill all known viruses except BSE. These are still unknown to them and they are not willing to offer a solution.

To perform this sanitizing procedure, cover all inner surfaces with the solution, let stand for 30 minutes and remove. Rinse the decontaminated surfaces with clean water and remove rinse water. Allow dewar to dry before putting into service. For vapor shippers and Doble units, this means to place dewar on end (inverted) and allow drying.

Note: Vapor dewars can be used immediately after rinsing but may take longer to recharge to 100% capacity.

Contact Chart Technical Service for details and information if you have any questions concerning decontaminating dewars.

Downloading TEC 3000 Data and Memory

The TEC 3000 can hold 30,000 data records. When an event log is downloaded this will not clear the events from the controller. The records remain in the controller until the 30 000 mark is reached, then starting from the

until the 30,000 mark is reached, then starting from the oldest event, the records will be replaced one by one with the new data events.

Upgrading a TEC 2000 to a TEC 3000 (Power Supply)

When upgrading a TEC 2000 to a TEC 3000, always use the Jerome power supply included in the upgrade kit. Although previous TEC 2000s may already have a Jerome power supply Chart recommends replacing the power supply. This is essential for proper fill valve and level sensing functionality.

ACCESSORIES

Stainless Steel Basket

Chart offers a basket assembly that is used in conjunction with the SS transfer dewars. The basket is not designed for long term storage inside the dewars, but rather for shrink fitting or the cryo-treating of metal parts. P/N 11066283.



Upcoming Events

Tradeshows

We will be present at the following tradeshows, so feel free to stop by our booth. Please click the title of each tradeshow to be directed to the show site.

[Visiongain Biobanking](#)

February 9th-10th
London, UK

[American Association for Cancer Research](#)

March 31st-April 4th
Chicago, IL
Booth #4300

[European Group for Blood and Marrow Transplantation](#)
April 1st-April 4th
Geneva, Switzerland
Booth #149

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