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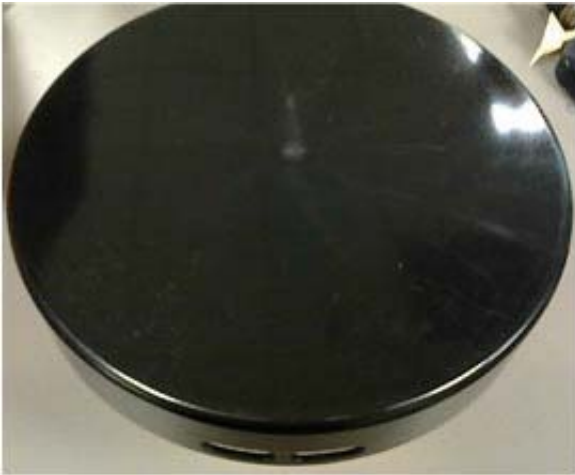
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## MVE Chart Tech Tips

### PRODUCT INFORMATION

#### Cryoshipper New Composite Lid

Chart's Cryoshipper lid has been transitioned from aluminum to a durable composite lid. The change was made to enhance long term aesthetic appearance and to provide a high density composite lid. The design of the lid is almost identical, except for a slightly visible difference in the paint finish. Part numbers remain the same for all Cryoshipper lids.



## LN2 TX - Liquid Nitrogen Transfer System

Chart's new LN2 TX is designed specifically to allow the safe and easy removal of liquid nitrogen from an open vessel. Instead of lifting and pouring liquid nitrogen from heavy dewars, one can simply utilize the LN2 TX to transfer liquid nitrogen from one open vessel to another. When connected to a nitrogen gas source, the LN2 TX will efficiently transfer liquid nitrogen.

- The new LN2 TX Assembly is P/N 15098872 and pictured below.



## Replacement Cork-and-Cover for MVE Aluminum Dewars

The replacement cork-and-cover is available for most aluminum dewar series. When calling in for replacements we recommend having the following information on hand: the type of dewar (XC, SC, or Lab series), the model description (MVE XC 34/18, Lab 20), serial number, and the measure of the inside neck diameter. This information will help to provide the correct cork-and-cover part number for the dewar's application.

## Replacement Lid and Gasket Assembly for MVE Freezers

Freezer lids, cork, and gaskets are available for replacement. When replacements become necessary, one must provide the freezer model and serial number when ordering. Photographs of the lid, gasket, and the hinge areas may become necessary to complete the order, depending on the freezer series. This information will help us provide the correct lid and gasket replacements. Some lids and gaskets for older freezer models may still be available.

## Chart MVE PDF Logger®

Chart MVE introduced the new PDF Logger® in November 2011. The PDF Logger® requires only one single device, without the need for specific software or cables, to monitor the temperature during the global transfer of cryobiological goods. The easy-to-use "Transit" and "Arrived" buttons make initiating and receiving monitored shipments fast and simple. The PDF Logger® can be plugged into the USB port of any PC to automatically generate a PDF evaluation report which provides: statistics, the alarm status, and a temperature graph. There is a free online configuration software on pdf-logger.com that allows the user to customize the logging and reporting to the utmost degree.

Facilities that require a verification of the logger-temperature probe system can use the configuration software which has a built in calibration verification function that will print a verification sheet.

Furthermore, the one year lifespan eliminates the hassles of recalibration and recertification. After the PDF Logger® has been in service for 1 year, simply discard the logger and purchase a new one. For details please review the November 2011 Technical Tips edition.

The models that use the PDF Logger® are the MVE Vapor Shipper Series including the IATA, Cryoshipper, Cryoshipper Extra Cap & Mini Cryoshippers, Cryo Moover, SC 4/2V, SC 4/3V, and SC 20/3V.



### New Configuration for Manual Liquid Discharge Device

Effective Immediately the Manual Liquid Discharge Device will have a new configuration. The ball valve (flow control) will be mounted vertically before the elbow in the circuit. This change will improve the durability of the unit in shipment. Please [click here](#) to see the complete Service Bulletin regarding this change.

The new pressure gauge part number is P/N 20533104.

### HELPFUL HINTS / FAQs

#### TEC3000 Data and Memory

Q: How many records can the TEC3000 hold?

A: The TEC3000 can hold 30,000 data event records.

When event logs are downloaded from the controller they are not erased and remain in the controller's memory until the 30,000 mark has been reached. Once this mark has been reached, the oldest event logs are cleared and replaced with the new event logs.

## Frost and Ice on Freezer Lids

Q: Why are there frost and ice on the freezer neck and lid during while I'm filling it for the first time?

A: When performing the first fills on the freezer, it is necessary keep the lid off in order to allow sufficient venting during filling. A certain amount of frost and ice may appear and accumulate around the freezer neck for the first fills, but this is normal.

Q: Why are there frost and ice on the freezer lid?

A: It is normal for a small amount of frost and ice to appear and accumulate around the freezer lid area as the freezer automatically fills. However, excessive frost and ice can be attributed to a worn gasket, insufficient venting of the lid, or improper fill pressure. If there is not enough gap in the gasket to allow for sufficient venting this can cause excessive frost on the lid edge.

Objects placed on the lid can cause the gasket to seal too tightly as the freezer fills and may cause frosting issues which could also affect controller level readings.

On the HE Series, a minor leak in the plumbing can also simulate a frost and ice issue.

\*Please note, depending on ambient room temperatures, normal condensation and frost may develop on the lid/neck area assembly at times during fills. Chart's preventative maintenance plan recommends wiping down the lid and neck areas of the freezer either weekly, or as needed.

## ACCESSORIES

**Secondary Shipping Container and screws - this is part of the IATA package.**

- P/N 2910221 Screws (6)



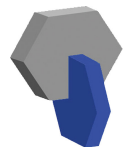
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### MVE Freezer Series Optional Vapor Platforms

Chart offers optional vapor platforms for the MVE Series. When ordering, please keep in mind vapor platforms occupy approximately 4 to 5 inches of the freezer's usable space, which may affect the necessary rack size.

- P/N 10544837 MVE 205
- P/N 10544853 MVE 510
- P/N 11509726 MVE 616 and Cabinet Series
- P/N 10544888 MVE 1426 and Cabinet Series
- P/N 10544909 MVE 1839



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