



PrincetonCryo.com  
Cryogenic Delivery and Storage Systems

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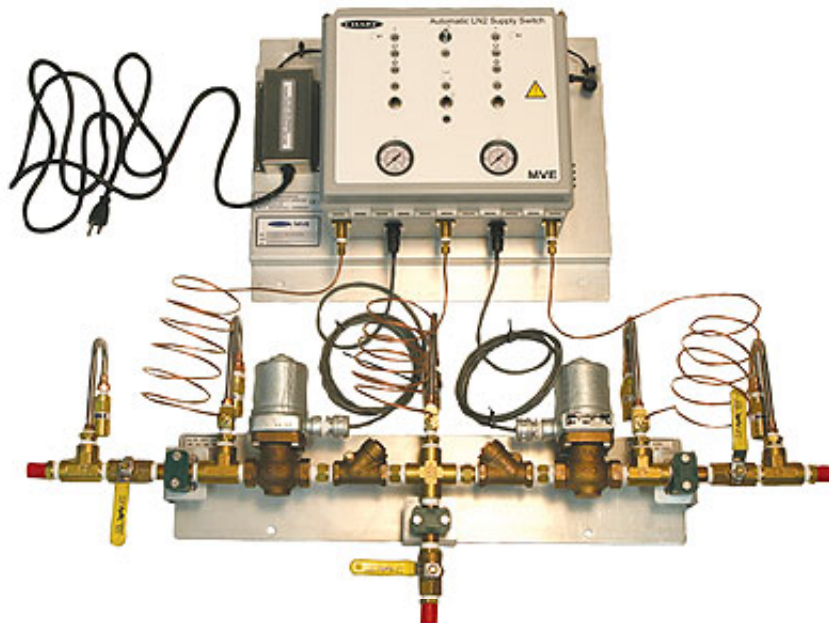
## MVE Chart Tech Tips

### PRODUCT INFORMATION

#### MVE Automatic LN2 Supply Switch

The MVE automated supply tank switch, PN 13934911, is a dual inlet manifold enabling automatic switch-to-back-up supply for cryogenic storage tanks. Two liquid cylinders connect via the switching manifold directly to the nitrogen freezer. When the primary tank is empty, the supply line is automatically switched to the secondary or back-up cylinder.

This unattended switching ensures that supply integrity is maintained to the storage system. A visual alarm shows when the primary tank is empty. Audible and visual alarms indicate to laboratory personnel when both tanks are empty.



Tank Supply Switch  
PN 13934911

## TEC3000 Version 2.03 Firmware

Chart MVE has released the new TEC3000 Version 2.03 firmware. All new production TEC3000s will have the new firmware. Chart recommends updating any controllers in service that may be experiencing issues. Contact Chart Technical Support or your local distributor for more information.

### HELPFUL HINTS / FAQs

#### Freezer Hinge Part Numbers

Q: I have an open top freezer and I need to replace the lid hinges. What part number should I use?

A: The part number will depend on your freezer and which type of lid hinge you currently are using. In early 2000, Chart upgraded to a newer style hinge. The new hinge attaches to the freezer differently than the old style.

Q: How can I tell which type of hinge I am using?

A: Please see the below photos and take note of the screw locations.



Old Hinge Style

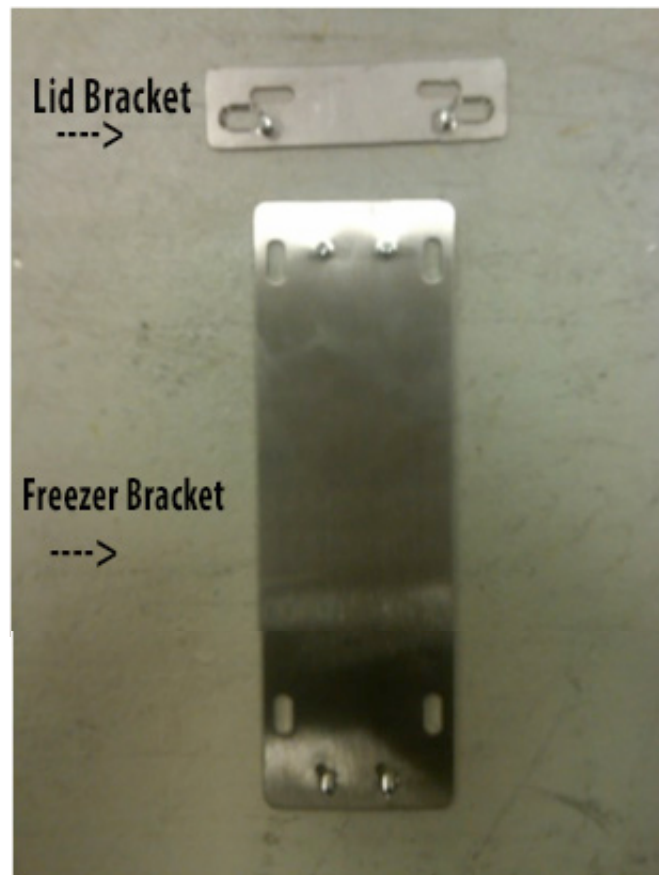


New Hinge Style

Notice the old hinge style has a flange with the screws located outside of the body of the hinge. The screws on the new hinge style were moved inside the body of the hinge. The screws are also in different locations in respect to where the hinge attaches to the lid.

Q: What if I want to replace the old style lid hinge?

A: The old lid hinge is obsolete. Chart sells a hinge retrofit kit that allows the freezer to attach to the new style hinge. This kit includes one bracket that attaches to the freezer and one bracket that attaches to the lid. The kit also includes the necessary nuts and screws, as well as the instructions. Please see the below photo for more details.



Retrofit Brackets PN 11087666

**Q:** Which parts should I order to replace my lid hinge?

**A:** If you have the new style of hinge on your freezer you will simply need to order the hinge for that freezer. If you have the older style hinge you will need to purchase the hinge for your freezer as well as the retrofit kit. Please see the below table for part numbers.

Description	Hinge Part Number
Retrofit Kit	11087666
MVE 510	10842113
MVE 1426/616/616C/1223	11008366
MVE 1426C	11929579
1800 Series open top	11933551



Black Hinge  
PN 11929579,  
10842113, and  
11008366



Stainless Steel  
Hinge  
PN 11933551



Retrofit Kit  
PN 11087666

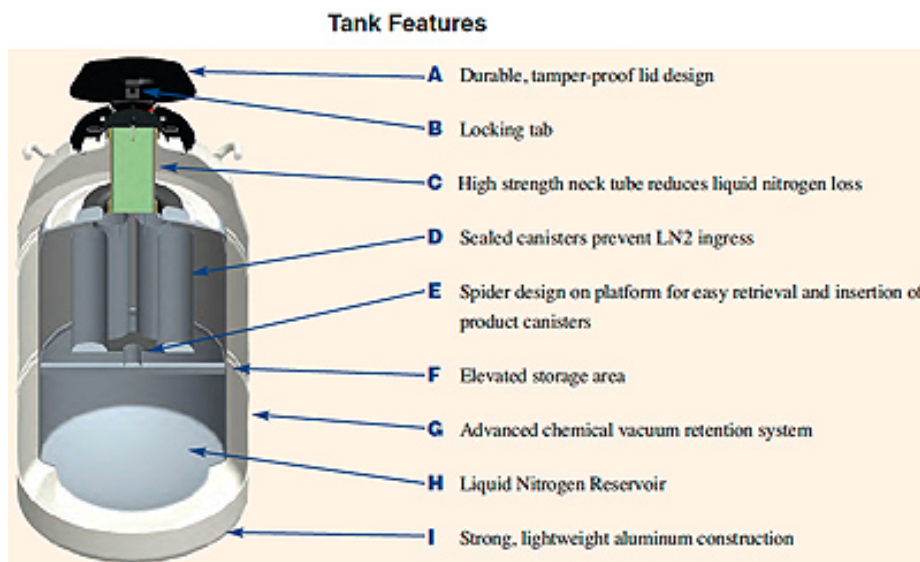


Stainless Steel  
Hinge with  
Retrofit Kit

**Q:** I need to store samples in vapor but I only need a small capacity. Which tank should I use?

**A:** The XC 34/18 Plus features a unique, modified vapor storage design similar to our other small dewars; however, the XC 34/18 Plus is designed specifically for storage in LN<sub>2</sub> vapor. The tank is perfect for storing straws or vials as well as IVF applications. Elevated storage areas protect the samples and keep them above the liquid nitrogen, while sealed canisters prevent LN<sub>2</sub> ingress.

### XC 34/18 Plus



## ACCESSORIES

### Discharge Device Attachments

The discharge device has several filling accessories available, one of the most popular being the stainless steel transfer hose. A stainless steel transfer hose can be used with a discharge device. The hose is two feet long, has threads  $\frac{1}{4}$  inch in diameter, and is equipped with a choice of two phase separators. The discharge device also has the option for a nozzle with a phase separator attached.



Stainless Steel Transfer Hose in Use



Stainless Steel Transfer Hose

Phase Separator Size	Part Number
Small	14044143
Medium	14044151
nozzle w phase separator	11734421

## Cryo Gloves

Chart provides cryogenic gloves for the safe handling of samples. Cryogenic gloves are available in medium length or elbow length.

Size	Medium Length	Elbow Length
Medium	9717119	9717149
Large	9717129	9717159
Extra Large	9717139	9717169



Elbow Length



Medium Length

