

## MVE Chart Tech Tips

### PRODUCT INFORMATION

#### Chart MVE Cryosystem Series

The MVE CryoSystem 750, 2000, 4000, and 6000 combine the benefits of low nitrogen consumption with mid-range vial capacity to meet the diverse needs of today's professionals worldwide. The lightweight and low-space demands of these containers make them the most economical units in their class. Chart-MVE cryogenic vessels are performance leaders through innovation, super insulation, and vacuum technology. THREE Year Vacuum Warranty; for specifications, please reference the Cryocatalog.



## Chart MVE Cryosystem 6000 Full Auto

The MVE CryoSystem 6000 Full Auto combines the compact efficiency of aluminum dewars with the monitoring and auto fill features of the TEC 3000 control system. The innovative technology designed this unit to be used for liquid or vapor storage with a  $-190^{\circ}\text{C}$  top box temperature. The TEC3000 continually monitors and records temperature and LN2 levels, auto filling when needed, and providing audio/visual alarms with remote connectivity when necessary. The CryoSystem 6000 Full Auto provides the same convenience and security of high capacity stainless steel freezers for your average sized sample collection. Two Year Standard Warranty; Three Year Vacuum Warranty; for specifications, please reference the Cryocatalog.



## HELPFUL HINTS / FAQs

**Q:** The freezer lid and neck area appear to have excessive frost and condensation when the freezer fills; is that normal?

**A:** Sometimes a large amount of frost and ice accumulates around the freezer lid that could be attributed to several issues. Check the gasket by initiating a fill cycle and observe the lid. If the lid shakes or vibrates during the fill, verify the source pressure. The supply pressure must be 22-35 psi (1.5 to 2.4 bar). Verify the gasket is not warped and replace as necessary; this may alleviate the problem.

**Q:** Should one use caution when not using the bottom stage on square racks when storing in vapor?

**A:** When one does not use the bottom stages of the racks because of the large amount of force exerted by the weight of the samples/boxes, deformation of the rack can occur. To prevent this, we recommend using empty boxes as placeholders in the bottom stages to help alleviate this condition.

**Q:** When maintenance is required to replace the SMC fill solenoid is there a flow direction of the valve?

**A:** The SMC solenoid valve would show an arrow on the brass housing designating the LN2 flow direction.



## ACCESSORIES

Chart offers a Cool Reach tool to may help retrieve samples on the vapor platform or through the freezer access panel.  
Below are the materials needed and instructions.

### Materials Needed

1. Piece of Wire (Bent into a hook)
2. Cool Reach (PN: 13051579)

### Instructions

1. Shape a piece of wire into a hook.
2. Turn tray until the section with the access panel is located.



Insert the bent <sup>3</sup>wire into the oval hole.



4. Lift the access panel until it is completely open.



5. Retrieve samples using the Cool Reach (PN 13051579)



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Cryogenic Delivery and Storage Systems

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