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In This Issue

[Product Information](#)  
[Helpful Hints / FAQs](#)  
[Accessories](#)

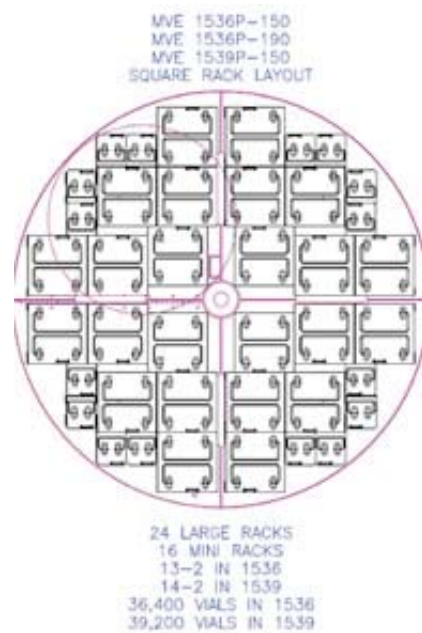
## MVE Chart Tech Tips

### PRODUCT INFORMATION

#### Chart MVE Freezer Rack Layouts

Chart Biomedical's cryobiological website has visual illustrations of our freezer racking systems. When selecting a freezer, please note the difference between vapor and liquid storage. The MVE Series freezers are designed primarily for liquid storage and the HE Series are designed primarily for vapor storage. Below are just a few examples of the rack layouts listed on the website. Please click the link below to view additional freezer layouts at this site.

[http://chartbiomed.com/MVE\\_inventory.cfm](http://chartbiomed.com/MVE_inventory.cfm)





### Chart MVE Freezers Systems

Chart offers freezer inventory systems such as square racks, vial boxes, blood bag frames, and cassettes. This storage equipment can be used to hold vials and straws. There are two parts lists available on the biomedical website that contain pictures and part numbers of these components. For any additional information regarding pricing that cannot be found on these lists, please contact Customer Service.

#### 1. Blood Bag Inventory Components

[http://chartbiomed.com/pdfs/BL\\_BAG\\_COMPONENT\\_PRICING.pdf](http://chartbiomed.com/pdfs/BL_BAG_COMPONENT_PRICING.pdf)

#### 2. Square Rack Inventory Systems:

[http://chartbiomed.com/pdfs/MVE\\_SQ\\_RACK\\_PRICE\\_LIST\\_2008.pdf](http://chartbiomed.com/pdfs/MVE_SQ_RACK_PRICE_LIST_2008.pdf)

Chart's *MVE Freezer Inventory Systems Catalog* is also available.

Please contact Customer Service or Technical Support for a copy.



## HELPFUL HINTS / FAQs

### Freezer Fill Valve Resistance

Q: How does one measure the resistance of a freezer's fill solenoid valve?

A: Verify the resistance of each solenoid by measuring the two leads from the solenoid (approximately 70 ohms). If there are two fill valves wired together in parallel, the resistance should be approximately 35 ohms.

### Freezer Fill Valve Function

Q: How does one reestablish the function of the freezer's fill solenoid valve?

A: On the HE Series with the stand alone controller, the TEC3000 has a manual fill button on the rear panel. Press this a few times as this can release any stuck debris on the solenoid's plunger. This helps to reduce the likelihood of the valve not closing all of the way.

### The TEC3000 Disabled Its Automatic Fill Function

Q: Why does the TEC3000 display a "Max Fill Time" alarm and has stopped filling?

A: The maximum fill time alarm alerts the user when the freezer's maximum fill time has been reached. When the maximum fill time has been reached, the automatic filling function on the TEC3000 will be disabled. There are many reasons as to why the maximum fill time alarm may alert. One may be the freezer's high level set point has not been reached within the programmed maximum fill time set in the controller. Other reasons could be any of the following: signal the supply tank is empty, a low supply tank pressure, an inadequate supply is detected, a clogged inline filter, an incomplete opening of the solenoids, or a leak in the plumbing system. Verification of why these alarms occur is important. Once the condition has been resolved, the TEC3000 controller will clear the alarms and resume its automatic fill function.

## ACCESSORIES

### Rigid Dippers

Rigid Dippers are used to scoop out liquid nitrogen for the Lab Series and are available for order via the following part numbers:



- P/N 9711569 Lab5 Rigid Dipper
- P/N 9711679 Lab5 Swivel Dipper
- P/N 9711589 Lab10 Rigid Dipper
- P/N 9711619 Lab20&30 Dipper
- P/N 9711679 Lab50 Dipper

### Canes for Straws and Vials

Chart offers canes to hold straws and 1.0, 1.2, and 2.0 ml vials.



- P/N 9717009 1.0ml vials and straws
- P/N 9717029 1.2ml vials
- P/N 9717089 2.0ml vials



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