



July 2015

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MVE Chart Tech Tips

PRODUCT INFORMATION

Chart MVE IATA Shipper

Chart MVE IATA Shipper has been independently tested and approved to meet current UN and IATA regulations concerning the transportation of potentially infectious substances. The IATA shipper is a complete package that includes the protective shipping container, Cryoshipper XC, and one stainless steel secondary container. The secondary container can hold five large plastic or cardboard boxes that hold 100 internally threaded 1 or 2mm vials.

Order Using PN 10777411 (Vial box not included)

Please note: All other models of MVE Vapor Shippers can be legally transported by air (when shipping specimens that are not classified as or known to be potentially infectious).



Chart MVE LN2 Tx - Liquid Nitrogen Transfer System

Chart MVE's 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 LN2 TX Assembly is **PN 15098872** and pictured below.

Please note: The minimum neck opening for the vessel that liquid nitrogen is to be removed from is 3.25" (83 mm) and the minimum neck opening for the vessel that the liquid nitrogen is being transferred to is 4" (102 mm).



HELPFUL HINTS / FAQ's

Q: Which Vapor Shipper Operating Manual should I use for a dewar made before March 2015?

A: For units built before March 2015 please refer to PN 20929136 A. For units built after March 2015 and designated by the "Advance Technology" label, please refer to PN 11562640 REV L.

Q: What preventive maintenance is recommended for MVE freezers?

A: Preventative maintenance that should be performed on MVE freezers to ensure optimum operation and performance, as well as maximum service life. As with any technical piece of laboratory equipment, preventative maintenance is key to equipment success.

NOTE: Below is the MVE recommended preventative maintenance. MVE Distributors may have a more comprehensive maintenance/service plan. At the minimum, the below schedule should be followed.

Table 8: Periodic Preventative Maintenance Schedule

	Weekly	Monthly	6 Months	12 Months	24 Months	60 Months
Level Verification	X					
Verify Adequate Supply	X					
Plumbing Leak Check		X				
High Temp Alarm Test			X			
Level Alarm Test			X			
Thaw Freezer Lid			X			
Folding Step Inspection			X			
Lid Hinge Inspection			X			
Inline Filter Replacement				X		
Complete Function Test				X		
Solenoid Valve Replacement					X	
Relief Valve Replacement					X	
Lid gasket replacement					X	
Complete Freezer Thaw and Moisture Removal						X

Further information on the preventive maintenance procedures are located in section 9.2 page 117 - 126 in the TEC 3000 Manual. The TEC 3000 manual is located on our Chart Life Sciences Knowledge Center website.

Q: If a freezer does not fill, what steps can one take to correct the issue?

A: Please verify the following:

1. Verify that the LN2 supply is connected properly
2. Verify adequate LN2 supply volume or pressure
3. Verify the lid switch is not engaged (MVE Open-Top Models)
4. Verify settings in the Advanced section of the Liquid Level Menus to ensure automatic fill is not disabled.
5. Verify the resistance of the fill solenoid is 50 to 70 ohms (single) dual 25 to 35 ohms (parallel); replace if necessary; reference page 121 of 25 to 35 ohms (parallel); replace if necessary; reference page 121 of the TEC 3000 Manual for further instructions. The TEC 3000 manual is located on our Chart Life Sciences Knowledge Center website.

ACCESSORIES

TEC COM USB Kit

The TEC COM USB Kit is a useful tool to download data from both the TEC2000 and TEC 3000 and can be ordered using PN 13376947.

Chart TEC Connect Software

Chart TEC 2000 and TEC 3000 Connect Software is available on our website under the [Distributor Marketing Services Login](#)
(Username/password is NOT required)



Auto LN2 Tank Switcher

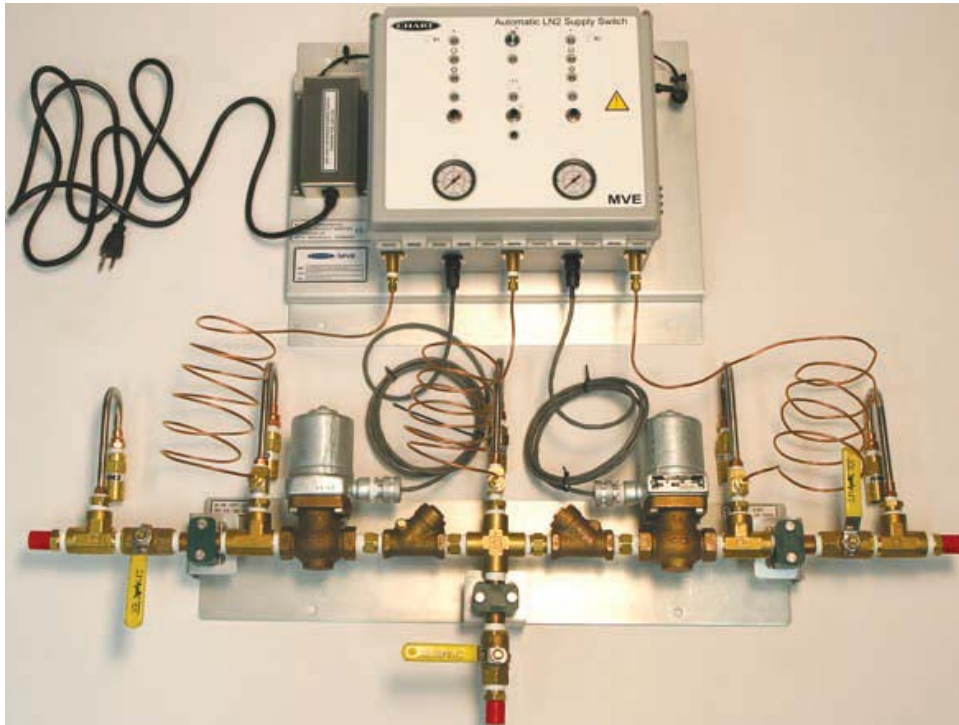
PN: 13934911 US/Canada tank switcher

PN: 11207040 US/Canada/Europe tank switcher

Automatically switches liquid cylinders when supplying liquid nitrogen freezers.

New high flow design to supply two or three freezers.

(does not include transfer hose).



Cool Reach

Grab items easier with the Cool Reach. Use the Cool Reach tool for vial rescue and to retrieve stored ampules.



Part Number 13051579 Cool Reach with 40" reach Part Number 13051608

Replacement cups-set (Not designed to be submerged in LN2)



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