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## MVE Chart Tech Tips

### PRODUCT INFORMATION

#### New MVE Liquid Nitrogen Measuring Tool

The new liquid level measuring tool is 47". This length allows the measuring tool to be used to measure the level of liquid nitrogen present in both liquid phase storage and large HE freezers.



Figure 1 -- Measuring Stick

#### Cabinet Only TEC2000 to TEC3000 Upgrade

When ordering TEC2000 to TEC3000 Cabinet upgrade kits, please specify if the freezer is equipped with gas bypass and battery backup. Freezers can be field-upgraded and the serial number will not reflect these add-on enhancements.

MVE Cabinet freezers, specifically the micro dynamics versions (DC Powered Solenoids), may need two additional plug adaptors (P/N 13319571S). As always, providing the serial number will ensure the correct upgrade kit is ordered.

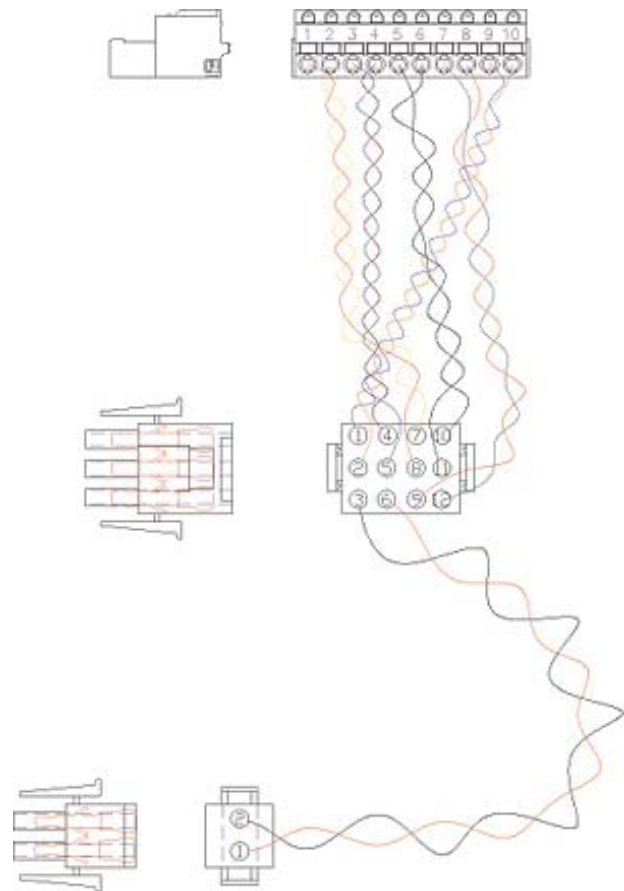


Figure 2 -- TEC Upgrade Wiring

## Retrofit Secondary Solenoid Valve Kit

HE/Eterne and MVE Series freezers equipped with one fill solenoid can be retrofitted to the dual fill solenoid system using P/N 11062215 for all freezers. The kit contains one fill solenoid, 2-1/2" standard pipe nipple, and a 1-7/16" hex nipple. Some minor alterations or modifications may be necessary to the existing plumbing in order to successfully install the kit. For more information, please contact [technical support](#).

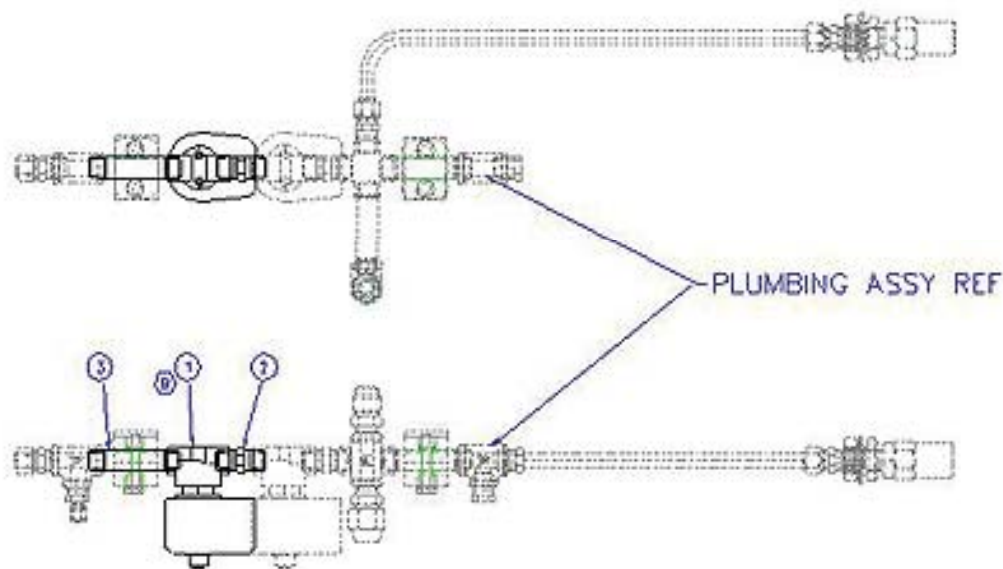


Figure 2 -- TEC Upgrade Wiring

## HELPFUL HINTS / FAQs

### Tech Tips

**Q:** How do I sign other people up for Tech Tips?

**A:** Please email [Taylor Erwin](#), Marketing Coordinator, and she will complete the registration process.

**Q:** How can I access past Tech Tips?

**A:** You can access all past Tech Tips via our [Resource Library](#). Downloadable versions of Tech Tips dating back to November 1999 are available on this site.

ACCESSORIES

Tee Valve Assembly

Chart sells a tee valve assembly complete with a relief valve which enables multiple connections of supply tanks and/or freezers.



Figure 4 -- Tee Valve

Corrections for July Tech Tips

The correct part numbers for the following items are listed below. Please reference these numbers instead of those previously listed in the July Tech Tips.

Item	Updated P/N
Lo Level Alarm	11905817 (BAT1-B)
Therm-O-lert Battery LN2 Level Alarm (230 V)	10769489
Therm-o-lert Battery LN2 Level Alarm (110 V)	9710879
Quantum QLA 100 (Europe and Asia)	11068675
Q QLA 100 (USA)	11068668