

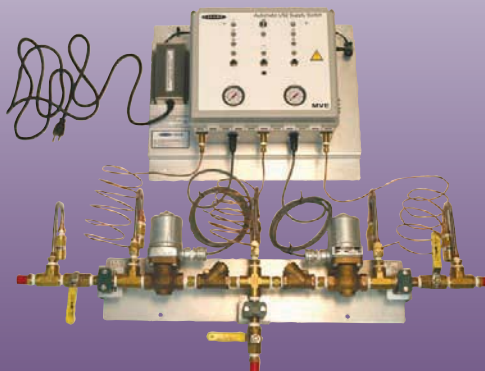
## Liquid vs. Vapor Storage

The major difference between liquid and vapor storage is the temperature. The High Efficiency models (offset neck), in vapor, are able to attain  $-190^{\circ}$  Celsius at the top box (These units are also available in  $-150^{\circ}\text{C}$ ), while if the samples are immersed in liquid, liquid nitrogen temperature will be attained,  $-196^{\circ}$  Celsius. Some researchers do not favor the liquid storage because they worry about cross contamination of samples. This theory is still being investigated. So vapor versus liquid is up to the customer.



## MVE Automatic LN2 Supply Switch (Tank Switcher)

Chart reintroduces its MVE Automatic LN2 Supply Switch (Tank Switcher), P/N 13934911. Its new design features two main components; the Controller and Plumbing assembly which enables easier installation and setup. The Fill Solenoids are 1/2 inch which helps to improve the flow of LN2. Please note if a CE mark is required the original Tank Switcher should still be ordered.



## Disabling Temperature Probes in the TEC Controllers

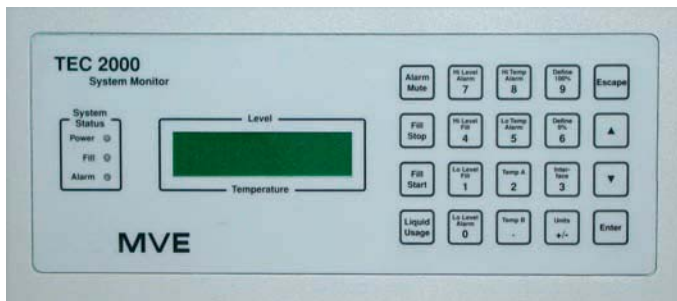
Both the TEC 2000 and TEC 3000 allow the customer to disable temperature probes. Below are the steps categorized by model:

### TEC 2000:

1. Disconnect the temperature probes
2. Cycle the power on the controller (unplug and re-plug main power).
3. During diagnostics screen, follow the prompt to disable the Temp A or B alarm.

### TEC 3000:

1. Enter Maintenance menu using designated pass code.
2. Press SETUP until TEMPERATURE MENUS.
3. Press ENTER
4. Select appropriate probe, Temperature A or B.
5. Press ENTER
6. The screen will request read ENABLED, use up and down arrow to select DISABLED.
7. PRESS ENTER



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