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MVE Chart Tech Tips

May 2014

PRODUCT INFORMATION

Chart MVE HEco Freezer Series

The new MVE HEco Series freezers provide up to 20% reduction in LN2 usage, making them the most efficient vapor freezers available. These next generation high efficiency freezers incorporate hinged work surfaces that fully enclose all electronics and plumbing to enhance overall safety and usability. The technical and visual improvements provide a more aesthetically pleasing freezer while offering greater functionality. As with all of MVE's cryogenic freezers, the MVE HEco Series freezers provide maximum storage density as well as the industry's longest hold time and highest sample security.

Features include:

* Up to 20% reduction in LN2 usage
* Fully enclosed wiring and plumbing
* Vacuum jacketed transfer hose
* Dry sample storage
* -190°C top box temperature
* Lowest lift-over height
* Two tier folding step

Chart MVE Cryocyl 35-50 Liter Supply Tank

Chart/MVE offers the Cryo-Cyl 35/50 LP Dewar. They are pressurized vessels that allow transfer of liquid nitrogen without pouring. These units are constructed of stainless steel and have a convenient liquid contents gauge. The plumbing system allows one to attach these dewars to any equipment that requires liquid nitrogen using a cryogenic transfer hose.

Note: The Crycyl 35 and 50 Liters dewars are not DOT compliant. Cryo-Cyl 35/50 LP dewars are primarily designed to transport LN2 in a small facility, laboratory, or farm.

CryoCyl 35 & 50 Series

* Same rugged design as the larger Cryo Cyl units
* Operates at 22 psig
* Complete with pressure and liquid level gauge

Warranty: 5 year vacuum, 90 days parts

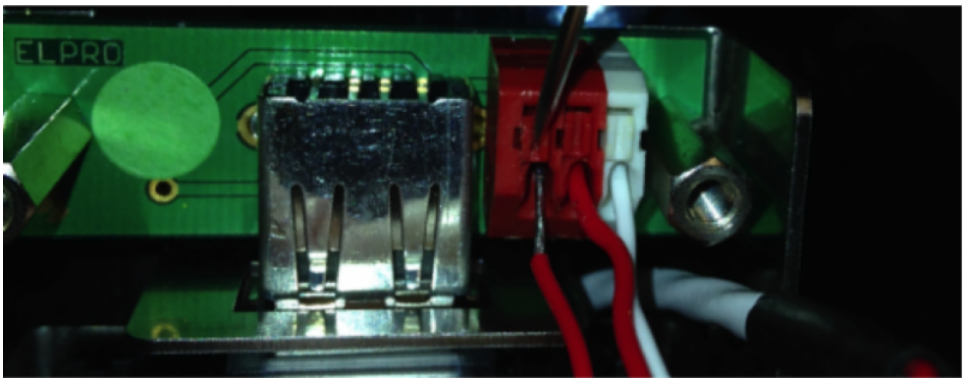
HELPFUL HINTS / FAQS

Q: How does one replace the PDF Logger itself after one year of use?

A: The PDF Logger unit connects to a computer via USB.
To replace, order the entire PDF Logger using PN 15085772
(Reference the accessories section below.)

Q: How does one replace the PDF Logger Temperature probe?

A: The PDF Logger temperature probe can be connected/disconnected via the red connector on the circuit board. Using a small jeweler screwdriver, press the wire connector inward to connect the wire. (See image below.) *PDF Logger Temperature Probe is PN 15085781.
(Reference the accessories section below.)



Once the connection is made it can take approximately **45 seconds** to **one minute** for the PDF Logger to display the temperature on the LCD. The temperature probe connection is non-polarized as the red wires can be switched.

Q: What is the best method to install the TEC Connect software via the Internet?

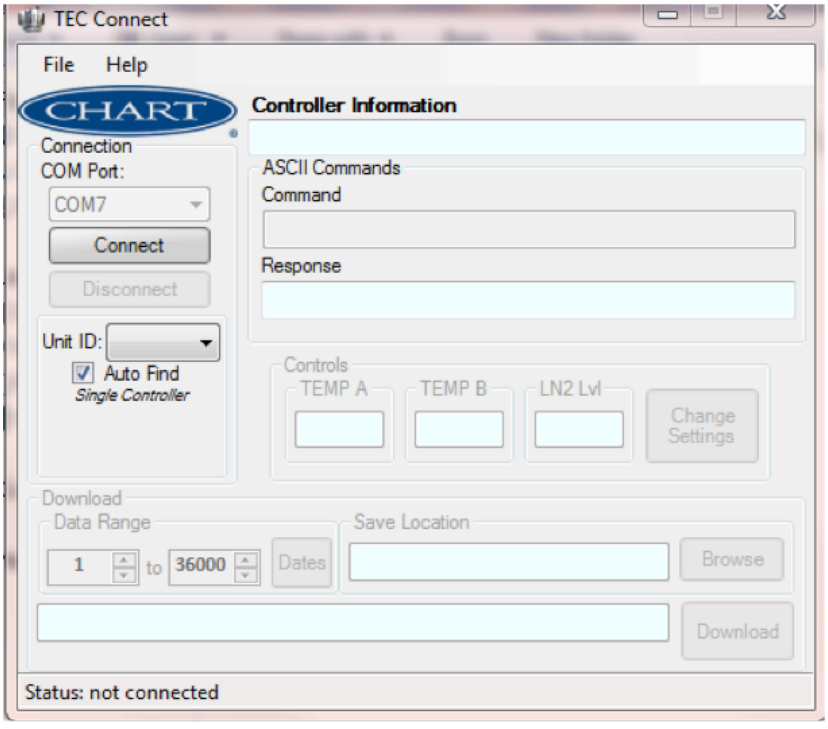
A: First delete any previous version of TEC Connect

Installing TEC Connect:

* Go to chartbiomed.com
* Hover over the Literature and Resources Tab with cursor
* Click Software
* Click download TEC Connect Software under TEC 3000 - TEC Connect Software
* Save as location can be Desktop
* Connect the USB Cable connected to the TEC COM Kit (PN: 13376947) to the Computer's USB Port
* Right Click 'TEC Connect' zipped folder icon on your desktop and click 'Extract All' and extract to Desktop. Close out the window that opens.
* Go to the 'TECConnect' folder that was extracted
* Double click the 'TEC_Connect_Software' folder
* Double click 'TEC_Connect_Setup'

Click 'Run' - Click 'Install'

The TEC Connect window should display:



Q: What steps does one take to change the TEC3000 event log period?

A: The default logging interval, the rate at which data is recorded in the memory of the TEC3000, is four hours. To adjust the event logging period would require using the USB TEC Com kit. Use the ASCII command, **LOGPER 120**. This would change the event logging period to 120 minutes.

ACCESSORIES

Chart/MVE PDF Logger unit, bracket, and temperature probe are available

- PDF Logger Unit PN 15085772
- Bracket Assembly PN 15086062
- Temperature Probe PN 15085781