



# MVE Tech Tips



A monthly publication for the MVE Biological Products Distributors

February 2004

## SHIPSLOG

Data Logger recalibration and replacing batteries can now be accomplished in Burnsville. Battery life on the ships logger can last anywhere from 3 to 5 years. They are not rechargeable and must be replaced when data logger shows percentage of battery falling below 10%. However, the logger's memory and parameter settings are erased when the battery is replaced, so the settings will need to be reprogrammed back into the board and the logger will need to be recalibrated. Chart can now offer both services. The price to perform the complete service to the data logger is \$350.00. Distributor discounts do not apply to non-warranty repair work.

Data logger calibration	\$200.00
Replace battery, reprogram, and recalibrate logger	\$350.00

**\*NOTE\*** Data loggers cannot have batteries replaced without having logger recalibrated. Turnaround time from receiving at our dock to return is 2 weeks. Call Customer Service for RMA#, data logger SN# is required and that is located on one end of data logger. Send cork/cover with logger attached, do not send complete unit. If cork is damaged it cannot be repaired. Please contact Bruce Edel or Jim Bachman for details and prices.

## **FEBRUARY SALE . FEBRUARY SALE . FEBRUARY SALE**

## REFURBISHED CONTROLLERS

We have in stock for immediate delivery 39 refurbished TEC-2000 stand alone controllers. All have been updated with the 1.71 version E-prom chip. All of these controllers have been functionally tested and are in perfect working order. This version of the TEC-2000 has been replaced by the 48" level controller (11800329). When this inventory is gone, there will be no more of this controller version available, ever. The price for each refurbished controller (10717486R) is a flat \$300.00. No other discounts apply to this already low price.

## CRYOSYSTEM UNITS

5 - Cryosystem 1800 PN 11052674 Priced at \$650 each 3-Year Warranty  
Aluminum unit with (8) 2-9 mini racks, capacity - 1800 1.2 to 2.0ml vials.

Specifications:

Overall Height	36"/91.4cm
Diameter	22"/55.8cm
Neck diameter	6"/15.2cm
LN2 capacity/ltrs	90
Weight full	311/141kg
Weight empty	114/51.7kg
Number of racks	8
Boxes per rack	9 (2.75 X 2.75 X 2.0625 – 25 cell)
NER	< .65 liters/day

Optional roller base available upon request (p/n 10937420) at \$194 less discount.

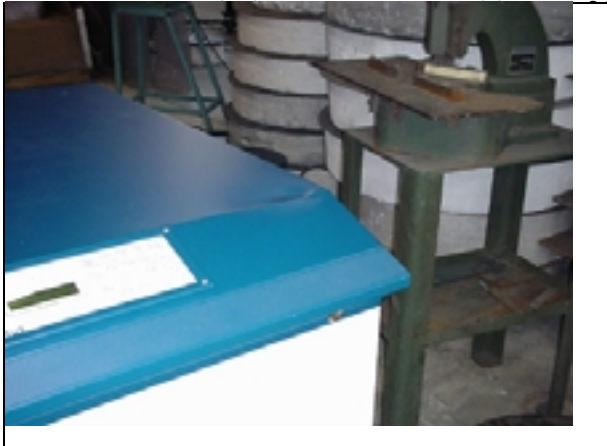
## 2 - XLC 500 Units

Both function properly, but one has dent in the lid and the other has a mismatched colored cabinet.

SN CDRH03D108 – dented lid

SN CDRH03D105 – some scratches, mismatched colored cabinet

Price \$3950.00 ea



CORNER CABINET

## **YOU ASKED FOR IT....**

### QUESTION AND ANSWER

Q. How do I perform the validation procedure for testing the fill valve alarm?

A. There are two ways to make it happen. The first requires quick finger work and is not always successful.

- Start a fill cycle with the fill start button.
- During the 30 second purge cycle; change the high fill and high alarm settings so that the high alarm is below the current level in the freezer.
- When the controller takes the first level reading after the purge cycle, it should realize that the level is now above the high alarm setting and the valve is still powered on by the logic circuit and trigger the alarm.

Again, this is not always successful. With cabinet units, this is the easiest approach if you can get it to work.

The second is more likely to be successful, and is the easiest approach with non-cabinet units where the sensor tube connection is readily accessible.

- Change the high fill and high alarm settings so that the current level is above the high alarm setting. (this will trigger the high alarm)
- Pull the vinyl sensor tube loose from the bottom of the controller.
- When the level reading drops and it starts a fill cycle, the first reading taken will be above the high-level alarm setting, and the alarm will be triggered.

This approach can be used with cabinet units, but you will have to remove the rear panel and remove the vinyl tube from the purge valve connection.

By simply pressing fill start and depressing the manual fill button until it reaches the high alarm parameter will not make it happen.

Q. Do you have documents verifying the temperature was calibrated at the factory?

R. We currently cannot offer certification documentation on the in house calibration of the TEC-2000 for either temperature or level. While the calibration that we perform is probably as accurate as any available, we do not use a traceable standard in the calibration process, thus the calibration cannot be certified.

- Q. Is platinum RTD sensors specially developed for "low temperatures" (liquid nitrogen)?  
R. We use industry standard 1000 ohm platinum RTD's which are suitable for the low temperature application. They were not developed specially for this application.

## **CAN'T SEE THE FOREST FOR THE TREES**

A Welshman, a sheep, and a dog were survivors of a terrible shipwreck. They found themselves stranded on a desert island. After being there a while, they got into the habit of going to the beach every evening to watch the sun go down. One particular evening, the sky was red with beautiful cirrus clouds, the breeze was warm and gentle, a perfect night for romance. As they sat there, the sheep started looking better and better to the Welshman. So, he leaned over to the sheep and put his arm around it. But the dog got jealous, growling fiercely until the Welshman took his arm from around the sheep. After that, the three of them continued to enjoy the sunsets together, but there was no more cuddling. A few weeks passed by, and lo and behold, there was another shipwreck. The only survivor was a beautiful young woman, the most beautiful woman the Welshman had ever seen. She was in a pretty bad way when they rescued her, so they slowly nursed her back to health. When the young maiden was well enough, they introduced her to their evening beach ritual. It was another beautiful evening: red sky, cirrus clouds, a warm and gentle breeze; perfect for a night of romance. Pretty soon, the Welshman started to get "those feelings" again. He fought them as long as he could, but he finally gave in and leaned over to the young woman, cautiously, and whispered in her ear... "Would you mind taking the dog for a walk?"

### **Bio-Medical Customer and Technical Service**

Customer Service	888 683-2796 toll free / 952 882-5000 Burnsville receptionists 800 232-9683 fax
Technical Service	952 641-6115 direct line 866 819-5897 toll free 612 382-6678 cell 800-232-9683 fax

For copies of past Tech Tips or for more information on maintaining your nitrogen storage dewars please contact Jim Bachman at (952) 641-6115, Fax (800) 232-9683.