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## MVE Chart Tech Tips

### PRODUCT INFORMATION

#### HEco Series Battery Backup Option

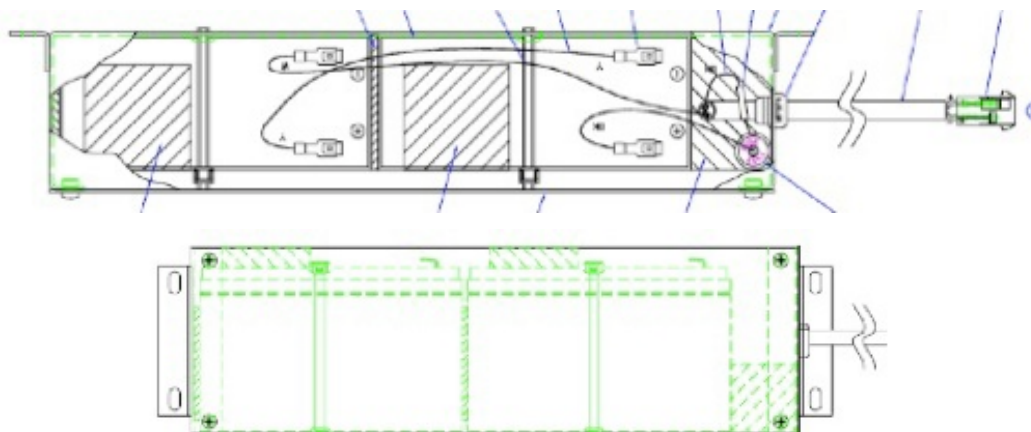
The HECO Series freezers are offered without the battery backup (BB). To order the BB please use PN 11864171. The TEC 3000 will function seamlessly on BB should there be a loss of A/C power. Additionally, the BB will help the TEC3000 perform its normal fill cycles, continue to monitor temperatures A and B, and maintain LN2 level control for approximately 72 hours.

The BB status can be viewed in the Add-on Menus. When the TEC3000 is connected to AC power the BB status screen will display, "On AC Power", with or without the BB connected. When there is a power failure and the TEC3000 is running on BB, the status screen will display, "On Battery Backup 26VDC 80%-100%". Please note this feature is available only with Firmware Version 2.02 or higher.

The Battery Backup assembly consists of these components:

- Two, 12 VDC lead acid batteries wired in series
- Inline fuse (4A 250V F)
- Battery housing
- Electrical connections

To order the BB please use PN 11864171.



## Temperature Probe Enhanced Electrical Connector

Chart/MVE continues to exceed our current standards and provide consistent quality products. Part of this continuous improvement is that we have ensured the freezer's temperature probe, mainly its twist-on connection remains intact and secured. Although there are no issues, this will enhance the electrical connection to the controller to continuously provide temperature monitor in Chart/MVE Freezers.



## Updated Printer Kit Adapter

The printer adapter has been updated to a style with terminal block connections to the RJ45 cable. This update does not affect the functionality of the adapter plug.



## HELPFUL HINTS / FAQ's

**Q:** Can I store round canisters in the Cryosystem 6000 and 4000?

**A:** Yes, the Cryosystem series come standard with square racks, but Chart offers optional round canisters for the Cryosystem 4000 and 6000. The canister for the Cryosystem 4000 is PN: 11854634 and the canister for the Cryosystem 6000 is PN: 13350712. Both measure 5.96 inches (151 mm) inner diameter.

**Q:** Can I store canes and straws in a MVE or HE model freezer without wasting space?

**A:** Yes, You will need the SUC (Single Unit Canister) boxes (PN: 9710491) and the SUC racks (either PN: 11392644 or 11395896). These racks have a height of 25" (635 mm) so be sure the model of freezer this rack would be used in is compatible. See the accessories section below for more detail on this inventory system.

**Q:** Some of my freezers have different length temperature probes. What are the replacement part numbers I will need to replace these different probes?

**A:** Chart offers one temperature probe as P/N 20570663. Chart has made the switch to one temperature probe measuring 65 inches (165cm) in the effort to simplify replacement orders. The current temperature probe can be used as a replacement on freezers with the 96" inch (244cm) or 44" (112cm) probe length. The 65 inch (165cm) temperature probe is robust, precise, and accurate in measuring cryogenic temperatures.

## ACCESSORIES

### SUC Canister Racks

If storing SUC canisters (PN 9710491) in freezers, Chart offers two racking options to conserve space. These racks work as a two-stage shelf, which allows two layers of racks to be stored in the freezer. One of the available racks holds two SUC canisters, PN 11392644, storing one over the other. The second, PN 11395896, holds eight of the canisters, storing four on each shelf.

Part Number	Number of SUC Canisters (PN 9710491)
11392644	Holds two SUC Canisters
11395896	Holds eight SUC Canisters



SUC Canister: PN 9710491  
2.5" (63.5 mm) W x 11" (279.4 mm) H



PN 11392644  
3" (76.2 mm) W x 25" (635 mm) H



PN 11395896  
.25" (133.35 mm) W x 25" (635 mm) H