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In This Issue

[Product Information](#)
[Helpful Hints / FAQs](#)
[Accessories](#)

MVE Chart Tech Tips

PRODUCT INFORMATION

New and Improved Chart Industries Website

All MVE product information is now located on Chart's recently launched webpage, under the Life Sciences section. Visit the address below to explore the new site.

<http://www.chartindustries.com/Life-Sciences>



Fig. 1 - Chart Life Sciences homepage. Location of all MVE product information.

Manuals, rack layouts, recent editions of Tech Tips, and other product information for Chart's aluminum and stainless steel products are now located in the Life Sciences Knowledge Center. To navigate to the **Life Sciences Knowledge Center**, hover over the "Life Sciences" menu near the top banner, then select the Life Sciences Knowledge Center link.



Fig. 2 - Link to the Life Sciences Knowledge Center from the dropdown menu.



Fig. 3 - Life Sciences Knowledge Center page

Documents in the Knowledge Center are sorted into one of four categories: Spec Sheets, Catalogs/Literature, Operating Instructions, and Technical Manuals.

TEC 3000 Interface Software

The TEC Connect software is located under the Distributer Marketing Services page. A link to this page is available directly from the Life Sciences Knowledge Center page in the sidebar on the left of the page.

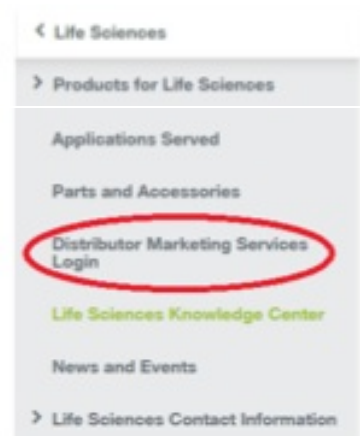


Fig. 4 - Navigation Sidebar

The TEC Connect Software and the drivers for configuring the TEC COM kit are located on this page. The TEC 3000 Firmware Updater program can be downloaded after entering a valid username and password.



Fig. 5 - Distributer Access Page

All MVE Vapor Shippers, Doble Series, Cryoblock Inserts, and Canister Inserts to Now Contain Aerogel

Chart is proud to introduce Advanced QWick Charge technology to decrease preparation time when shipping samples in vapor, without sacrificing hold time. All MVE Cryoshipper series, Doble series, Cryoblock inserts and Canister inserts manufactured going forward will contain an aerogel absorbent in place of Cab-o-sil. This Advanced QWick charge material will provide equal or better hold times when compared to the Cryoshipper series, and significantly better hold times when compared with the QWick series, while also providing charge times of less than two hours*. These newer shippers can be identified by a label that reads "Advanced QWick Charge Technology".

*Note: The Advanced QWick Charge absorbent will charge in just minutes, but MVE recommends a 2-hour charge process to allow for a cool-down of the tank prior to shipping.



Fig. 6 - (Above-Left) Advanced QWick label to distinguish vapor shipper models made with the improved absorbent material displayed on a vapor shipper. (Above-Right) Examples of the new style Cryoblocks.

The previous Cryoshipper QWick series shippers will no longer be manufactured, however, existing inventory of Cryoshipper QWick models and Cryoshipper models made with the Cab-o-sil material will be provided for a limited time.

For additional information, please review the [Service Bulletin](#).

Planer Ships Log Datalogger Calibrations and Battery Replacements No Longer Offered and All Parts Obsolete

Planer Ships Log Datalogger battery replacement and calibration service are no longer available. The Planer dataloggers are now obsolete including all of its associated replacement parts.

Chart offers the PDF logger (PN: 15085772) to satisfy demands for high precision temperature monitoring for vapor shipments.

HELPFUL HINTS / FAQ's

Q: Will the Cryoshipper Series holding time specifications change?

A: The advanced aerogel absorbent will provide equivalent or better holding time performance than the previous Cryoshipper series, and significantly better holding time than the Cryoshipper QWick series.

Q: What are the new part numbers for the Advanced QWick model Cryoshipper dewars and Doble dewars?

A: The part numbers for the Cryoshipper series and Doble series tanks will remain the same. The absorbent used in these models is changing. The Cryoshipper QWick model shippers will be discontinued.

Q: How do we distinguish difference in the field?

A: Retrieve the serial number or look for the Advanced QWick Technology label pictured above.

Q: What color is the new absorbent?

A: The new absorbent material is white.

Q: Are the other accessories changing to the new advanced absorbent?

A: Yes. The Cryoblocks and absorbent canister inserts are being upgraded to the new absorbent material. The design of the Cryoblock cases has been upgraded, and customers will enjoy the improved aesthetics and performance, not to mention a significantly shorter lead time.

Q: Does this impact the Medical Device Directive certification for the Cryoshipper series?

A: No, all shippers will continue to be MDD compliant.

Q: Will this affect my SOP/Validation?

A: No, users can follow their existing SOP for charging and shipping the Advanced vapor shippers. However, they can change their SOP's for the 2-hour charging at their convenience to take advantage of same-day shipping.

ACCESSORIES

MVE CryoShipper Mini

The Cryoblock inserts are for use with the Cryoshipper Mini. These inserts contain additional absorbent material to extend hold time.

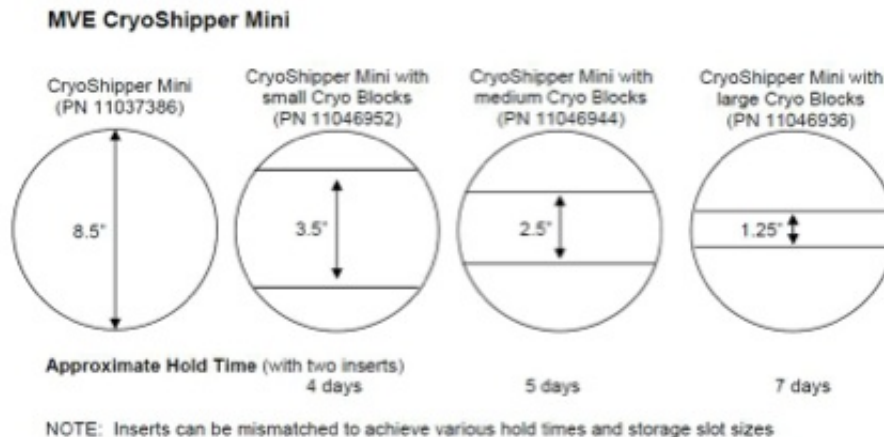


Fig. 7 - Internal space available when using various sizes of Cryoblock inserts.

There are four sizes of Cryoblocks for use with the Cryoshipper Mini.

| Size | Part Number |
|----------------------------|-------------|
| 4" Large Cryoblock Insert | 11046936 |
| 3" Medium Cryoblock Insert | 11046944 |
| 2" Small Cryoblock Insert | 11046952 |
| 1" Square Cryoblock Insert | 11046928 |



Fig. 8 - Cryoblock Insert