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MVE Chart Tech Tips

June 2013

PRODUCT INFORMATION

MVE Automatic LN2 Supply Switch

The MVE automated supply tank switch, PN 13934911, is a dual inlet manifold enabling automatic switch-to-back-up supply for cryogenic storage tanks. Two liquid cylinders connect via the switching manifold directly to the nitrogen freezer. When the primary tank is empty, the supply line is automatically switched to the secondary or back-up cylinder.

This unattended switching ensures that supply integrity is maintained to the storage system. A visual alarm shows when the primary tank is empty. Audible and visual alarms indicate to laboratory personnel when both tanks are empty.
TEC3000 Version 2.03 Firmware

Chart MVE has released the new TEC3000 Version 2.03 firmware. All new production TEC3000s will have the new firmware. Chart recommends updating any controllers in service that may be experiencing issues. Contact Chart Technical Support or your local distributor for more information.

HELPFUL HINTS / FAQS

Freezer Hinge Part Numbers

Q: I have an open top freezer and I need to replace the lid hinges. What part number should I use?

A: The part number will depend on your freezer and which type of lid hinge you currently are using. In early 2000, Chart upgraded to a newer style hinge. The new hinge attaches to the freezer differently than the old style.

Q: How can I tell which type of hinge I am using?

A: Please see the below photos and take note of the screw locations.

Old Hinge Style
New Hinge Style

Notice the old hinge style has a flange with the screws located outside of the body of the hinge. The screws on the new hinge style were moved inside the body of the hinge. The screws are also in different locations in respect to where the hinge attaches to the lid.

Q: What if I want to replace the old style lid hinge?

A: The old lid hinge is obsolete. Chart sells a hinge retrofit kit that allows the freezer to attach to the new style hinge. This kit includes one bracket that attaches to the freezer and one bracket that attaches to the lid. The kit also includes the necessary nuts and screws, as well as the instructions. Please see the below photo for more details.
Q: Which parts should I order to replace my lid hinge?

A: If you have the new style of hinge on your freezer you will simply need to order the hinge for that freezer.

If you have the older style hinge you will need to purchase the hinge for your freezer as well as the retrofit kit. Please see the below table for part numbers.

<table>
<thead>
<tr>
<th>Description</th>
<th>Hinge Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retrofit Kit</td>
<td>11087666</td>
</tr>
<tr>
<td>MVE 510</td>
<td>10842113</td>
</tr>
<tr>
<td>MVE 1426/616/616C/1223</td>
<td>11008366</td>
</tr>
<tr>
<td>MVE 1426C</td>
<td>11929579</td>
</tr>
<tr>
<td>1800 Series open top</td>
<td>11933551</td>
</tr>
</tbody>
</table>

Black Hinge
PN 11929579, 10842113, and 11008366
Stainless Steel Hinge
PN 11933551

Retrofit Kit
PN 11087666

Stainless Steel Hinge with Retrofit Kit

**XC 34/18 Plus**

Q: I need to store samples in vapor but I only need a small capacity. Which tank should I use?
Capacity: Which tank should I use?

A: The XC 34/18 Plus features a unique, modified vapor storage design similar to our other small dewars; however, the XC 34/18 Plus is designed specifically for storage in LN2 vapor. The tank is perfect for storing straws or vials as well as IVF applications. Elevated storage areas protect the samples and keep them above the liquid nitrogen, while sealed canisters prevent LN2 ingress.

ACCESSORIES

Discharge Device Attachments

The discharge device has several filling accessories available, one of the most popular being the stainless steel transfer hose. A stainless steel transfer hose can be used with a discharge device. The hose is two feet long, has threads ¼ inch in diameter, and is equipped with a choice of two phase separators. The discharge device also has the option for a nozzle with a phase separator attached.
Stainless Steel Transfer Hose in Use

Stainless Steel Transfer Hose

<table>
<thead>
<tr>
<th>Phase Separator Size</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>14044143</td>
</tr>
<tr>
<td>Medium</td>
<td>14044151</td>
</tr>
<tr>
<td>nozzle w phase separator</td>
<td>11734421</td>
</tr>
</tbody>
</table>

**Cryo Gloves**

Chart provides cryogenic gloves for the safe handling of samples. Cryogenic gloves are available in medium length or elbow length.

<table>
<thead>
<tr>
<th>Size</th>
<th>Medium Length</th>
<th>Elbow Length</th>
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</thead>
<tbody>
<tr>
<td>Medium</td>
<td>9717119</td>
<td>9717149</td>
</tr>
<tr>
<td>Large</td>
<td>9717129</td>
<td>9717159</td>
</tr>
<tr>
<td>Extra Large</td>
<td>9717139</td>
<td>9717169</td>
</tr>
</tbody>
</table>
Elbow Length

Medium Length

Upcoming Events

**Tradeshows**

We will be present at the following tradeshows, so feel free to stop by our booth.

**Cord Blood Symposium**
June 6-8
San Francisco, CA
Booth # 208

**ESHRE**
July 7-10
London, UK
Stand A24

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<td>800.482.2473</td>
<td><a href="mailto:techservice.usa@chartindustries.com">techservice.usa@chartindustries.com</a></td>
</tr>
</tbody>
</table>

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