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INTRODUCTION
The BTX Safety Stand is a safety device for use with the disposable cuvettes and the flatpack chambers. Its unique design ensures that no current can be delivered unless the lid is closed therefore protecting the user from high voltages. Up to two cuvettes can be electroporated at once, thus decreasing experimentation times. It is compatible with the BTX electroporators listed below.

IMPORTANT: Read all Instructions, Warnings and Precautions prior to use.

FOR RESEARCH PURPOSES ONLY

Compatible BTX electroporators*
ECM® 830
ECM® 630
ECM® 399
ECM® 2001
*Note: For compatibility with older models, call BTX technical support

Order No.  Model  Description
45-0207  630B  Safety Stand
Safety Stand

GENERAL INFORMATION

Warranty

BTX/Harvard Apparatus warranties this BTX Safety Stand for a period of 90 days from date of purchase. At its option, BTX/Harvard Apparatus will repair or replace the item if it is found to be defective as to workmanship or material. This warranty does not extend to damage resulting from misuse, neglect, or abuse, normal wear and tear, or accident. This warranty extends only to the original customer purchase.

IN NO EVENT SHALL HARVARD APPARATUS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, OR OF ANY OTHER NATURE. Some states do not allow this limitation on an implied warranty, so the above limitation may not apply to you. If a defect arises within the 90 day warranty period, promptly contact: BTX/Harvard Apparatus, 84 October Hill Road, Holliston, Massachusetts 01746-1388 using our toll free number 1-800-272-2775 (Outside the U.S. call 1-508-893-8999). Goods will not be accepted for return unless an RMA (Return Materials Authorization) number has been issued by our customer service department. The customer is responsible for shipping charges. Please allow a reasonable period of time for completion of repairs or replacement and return. If the unit is replaced, the replacement unit is covered only for the remainder of the original warranty period dating from the purchase of the original device. This warranty gives you specific rights, and you may also have other rights which vary from state to state.

Note: BTX electrodes are not recommended for use with power supplies or cables from other manufacturers. Such use is completely at the customer’s own risk as it may result in damage, create unsafe conditions and will immediately void the 90 day warranty.

IMPORTANT: Read all Instructions, Warnings and Precautions prior to use.

Technical & Customer Service

BTX® is the ultimate resource for technical information on the use of high voltage bacterial transformation and general electroporation of molecules and drugs into cells. We constantly track and monitor scientific publications in this area. Our Technical Service group extracts and enters pertinent information, such as results and parameters from these papers into a Protocol database. This database is available via the BTX website. Please visit www.btxonline.com. For technical assistance, additional information or an inquiry/request for repair service, contact BTX/Harvard Apparatus Technical Support/Customer Service Group at:

BTX®
A Division of Harvard Apparatus
84 October Hill Road
Holliston, MA 01746-1388 U.S.A.
Toll Free: 1-800-272-2775 (U.S. only)
Phone: 1-508-893-8999
Fax: 1-508-429-5732
E-mail: techsupport.bt@harvardapparatus.com
Internet: www.btxonline.com (click on customer service)

If outside the United States and Canada: call 1-508-893-8999 or contact your nearest BTX Distributor. A complete list of distributors is on our website.
OPERATION: GETTING STARTED

WARNING HIGH VOLTAGE

Make sure the BTX electroporator is switched off before continuing.

1. Attach the safety stand cables to the output on the rear or the front panel of the electroporator depending on the BTX electroporator being used.

2. Using aseptic technique, pipette the correct volume of cell suspension and reagents into the cuvette or flatpack chamber. If using a cuvette replace the cap.

3. Open the safety stand shield and place the cuvette or flatpack chamber between the metal contacts. Adjust the distance between the contacts using the black roller. (Note: the adjustment will remain the same after the first time, do not readjust the roller with every cuvette, however check contact periodically to ensure good current flow). Close the shield.

4. Switch on the BTX electroporator. Check that all instrument settings and connections are correct. Deliver the electroporation pulse by pressing the appropriate START or PULSE button depending on the BTX electroporator being used.

5. After the pulse is delivered, remove the cuvette or flatpack chamber from the safety stand. Use a pipette to remove the pulsed cells. Treat the pulsed cells according to the protocol.

6. Discard the cuvette, pipette and/or flatpack chamber in a biohazard container. Refer to your country’s waste management organization for proper disposal practices.

7. Unplug safety stand from electroporator. Clean plastic lid and metal contacts with ethanol and deionized water as needed.

APPENDIX A: SPECIFICATIONS

Safety Stand Electrical & Technical Specifications

<table>
<thead>
<tr>
<th>Standard Capabilities*</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Range</td>
<td>0 to 3000 VDC; 0 to 250 VAC</td>
</tr>
<tr>
<td>Frequency</td>
<td>1 MHz</td>
</tr>
<tr>
<td>Pulse Length/Time</td>
<td>10 µsec to 10 sec</td>
</tr>
<tr>
<td>Constants Range</td>
<td>1 to 99 (depending on voltage)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>5°C to 40°C</td>
</tr>
<tr>
<td>Intended Use</td>
<td>Indoor use only</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>20 to 80%</td>
</tr>
<tr>
<td>Maximum Altitude</td>
<td>2,000 m (6,562 ft)</td>
</tr>
<tr>
<td>Pollution Degree</td>
<td>II</td>
</tr>
<tr>
<td>Insulation Category</td>
<td>CAT I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical Characteristics:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Dimensions</td>
<td>12.7 x 10.2 x 17.8 cm (5 x 4 x 7 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>1 kg (2.3 lbs)</td>
</tr>
</tbody>
</table>

Compatibility:
Generators**
Monitoring
Monitoring System

ECM® 399, 630, 830 and 2001
The Enhancer 3000®

*Note: Depending on buffer composition, volume, and generator capability
**Note: For compatibility with older models, call BTX technical support.

APPENDIX B: REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>45-0207</td>
<td>630B</td>
<td>Safety Stand</td>
</tr>
<tr>
<td>45-0213</td>
<td>BT630</td>
<td>Acrylic Safety Stand Cover</td>
</tr>
<tr>
<td>45-0215</td>
<td></td>
<td>Metal Replacement Kit</td>
</tr>
<tr>
<td>45-0208</td>
<td>660</td>
<td>Cuvette Rack</td>
</tr>
<tr>
<td>45-0140</td>
<td>613</td>
<td>Bulk Pack of Cuvettes, 1 mm gap, 24 pkgs. of 100</td>
</tr>
<tr>
<td>45-0141</td>
<td>623</td>
<td>Bulk Pack of Cuvettes, 2 mm gap, 24 pkgs. of 100</td>
</tr>
<tr>
<td>45-0142</td>
<td>643</td>
<td>Bulk Pack of Cuvettes, 4 mm gap, 24 pkgs. of 100</td>
</tr>
<tr>
<td>45-0125</td>
<td>620</td>
<td>Disposable Cuvettes, 2 mm gap, pkg. 50</td>
</tr>
<tr>
<td>45-0126</td>
<td>640</td>
<td>Disposable Cuvettes, 4 mm gap, pkg. 50</td>
</tr>
<tr>
<td>45-0109</td>
<td>485</td>
<td>Flatpack Chambers, 0.56 mm gap, pkg. 50</td>
</tr>
<tr>
<td>45-0110</td>
<td>486</td>
<td>Flatpack Chambers, 1.53 mm gap, pkg. 50</td>
</tr>
<tr>
<td>45-0059</td>
<td>VIP3000SC</td>
<td>The Enhancer 3000® Monitoring System</td>
</tr>
</tbody>
</table>

*Note: Depending on buffer composition, volume, and generator capability
**Note: For compatibility with older models, call BTX technical support.

APPENDIX C: TROUBLESHOOTING

Please contact BTX Technical Service at any of the numbers listed below in the event of any failure.

BTX®
A Division of Harvard Apparatus
84 October Hill Road
Holliston, MA 01746-1388 U.S.A.
Toll Free: 1-800-272-2775 (US only)
Phone: 1-508-893-8999
Fax: 1-508-429-5732
E-mail: techsupport.btx@harvardapparatus.com
Internet: www.btxonline.com (click on customer service)
To Our Valued Customers:

We are committed to being a good corporate citizen. As part of that commitment, we strive to maintain an environmentally conscious manufacturing operation.

The European Union (EU) has enacted two Directives, the first on product recycling (Waste Electrical and Electronic Equipment, WEEE) and the second limiting the use of certain substances (Restriction on the use of Hazardous Substances, RoHS). Over time, these Directives will be implemented in the national laws of each EU Member State.

Once the final national regulations have been put into place, recycling will be offered for our products which are within the scope of the WEEE Directive. Products falling under the scope of the WEEE Directive available for sale after August 13, 2005 will be identified with a “wheelie bin” symbol.

Two Categories of products covered by the WEEE Directive are currently exempt from the RoHS Directive – Category 8, medical devices (with the exception of implanted or infected products) and Category 9, monitoring and control instruments. Most of our products fall into either Category 8 or 9 and are currently exempt from the RoHS Directive. We will continue to monitor the application of the RoHS Directive to its products and will comply with any changes as they apply.

Do Not Dispose Product with Municipal Waste

Special Collection/Disposal Required
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