The SI-MB4 vertical tissue bath is shown with all four channels (below). The closeup (right) shows a single tissue bath with a tissue holder mounted in the bath.

The SI-MB4 and SI-MB8 isolated tissue bath systems were developed for in vitro investigation on isolated smooth, cardiac or skeletal muscle preparations. They are specifically designed for pharmacological screening and testing that requires a high number of parallel samples. One advantage of this system is its modular structure, which allows the bath units to be used individually.

The SIH vertical tissue bath systems offer easy control of the inflow and outflow of buffer, oxygenation and stimulation. Simple tissue installation, calibration of the chamber volume and temperature maintenance are also important features.

**Features**
- Modular system for testing tissue strips or rings
- Systems available with four or eight bath units
- 5, 10 and 20mL calibrated chamber volumes
- Oxygen delivery and control integrated into each chamber
- Field (or point) stimulation electrodes built into each tissue holder
- Automatic overflow
- Manual buffer replacement and draining
- Temperature control unit is external
- Water jacketed reservoirs with built-in oxygenators
- Easy operation
- Unique optical force transducers

**Tissue Baths**
Tissue baths come as small as 5mL, for your most delicate applications. All the SI-H tissue baths are precisely calibrated, so that when your tissue holder is installed, you can accurately calculate your solution concentration.

**Oxygenation**
SI-H re-engineered the standard oxygen frit to avoid the disturbances to the tissue sample that tiny bubbles can cause. The repositionable SI-H frit
is installed on a small wire attached to the tissue mounts. You can choose the depth and direction of the bubble stream that will cause the least disruption to your tissue. Because the frit is a removable part, it can be easily replaced without the need to order a new tissue bath.

**Tissue Holders**

All tissue holders are made of Teflon to prevent the contamination of the tissue buffer by trace metals. The tissue holders are designed to:

- Permit the proper installation of the tissue on the holder before it is positioned in the chamber.
- Effectively oxygenate the buffer in the vicinity of the tissue.
- Position the field (or point) electrodes for efficient stimulation.
- Permit easy calibration of the chamber volume.
- Tissue mounts for ring with field stimulation are included with all systems.

Two tissue holder styles are available for testing tissue.

- **SI-OHO2F**—tissue strips with field stimulation. This can also be used with the included tissue mounts for tissue rings.
- **SI-OHO2P**—tissue strips with point stimulation.

### SYSTEM SPECIFICATIONS

<table>
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<tr>
<th></th>
<th>SI-MB4</th>
<th>SI-MB8</th>
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<tr>
<td>Width</td>
<td>500mm</td>
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</tr>
<tr>
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<tr>
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### BATH SPECIFICATIONS

<table>
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<tbody>
<tr>
<td>5mL</td>
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<td>10mL</td>
<td>65mm</td>
</tr>
<tr>
<td>20mL</td>
<td>65mm</td>
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*Inside height is measured between the outflow port at the bottom and the overflow port at the top.