Due to our continuous process of engineering and technological advancement, specifications may change without notice.

**Your distributor is:**
TLC
Temperature Limiting Control
ASSE 1070
Temperature Limiting Control
For UPC 413.1 Code-Compliant Installations with Thermostatic Tankless Electric Water Heaters

**Stiebel Eltron’s TLC kits meet ASSE 1070. Adding this kit to a DHE-E or Mini™-E will meet the requirements of UPC 413.1.**

Please contact your local Stiebel Eltron manufacturer’s representative or plumbing distributor or call Stiebel Eltron for more information and pricing specific for you.

800.582.8423

---

**STIEBEL ELTRON**
Simply the Best

**TLC**
Temperature Limiting Control

**ASSE 1070**
Temperature Limiting Control

**For UPC 413.1 Code-Compliant Installations with Thermostatic Tankless Electric Water Heaters**

<table>
<thead>
<tr>
<th>Model</th>
<th>Item #</th>
<th>Voltage</th>
<th>kW</th>
<th>Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHC-E 8/10</td>
<td>224201</td>
<td>240/208V</td>
<td>7.2/9.6</td>
<td>30/40 A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>240/208V</td>
<td>5.4/7.2</td>
<td>26/35 A</td>
</tr>
<tr>
<td>DHC-E 12</td>
<td>230628</td>
<td>240/208V</td>
<td>12/9 kW</td>
<td>50/44 A</td>
</tr>
</tbody>
</table>

**Mini™-E TLC Assembly** Item Number 502346
Completely assembled, includes ASSE 1070 mixing valve

**Mixing Valve Only** Item Number 550457
ASSE 1070 mixing valve alone - ½” comp.

<table>
<thead>
<tr>
<th>Model</th>
<th>Item #</th>
<th>Voltage</th>
<th>kW</th>
<th>Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini™-E 2-1</td>
<td>236011</td>
<td>120 V</td>
<td>1.8 kW</td>
<td>15 A</td>
</tr>
<tr>
<td>Mini™-E 2.5-1</td>
<td>236135</td>
<td>120 V</td>
<td>2.4 kW</td>
<td>20 A</td>
</tr>
<tr>
<td>Mini™-E 3-1</td>
<td>236010</td>
<td>120 V</td>
<td>3.0 kW</td>
<td>25 A</td>
</tr>
<tr>
<td>Mini™-E 3.5-1</td>
<td>236136</td>
<td>120 V</td>
<td>3.5 kW</td>
<td>29 A</td>
</tr>
<tr>
<td>Mini™-E 4-2</td>
<td>236009</td>
<td>240/208V</td>
<td>3.5/2.6 kW</td>
<td>14.6/12.7 A</td>
</tr>
<tr>
<td>Mini™-E 6-2</td>
<td>236008</td>
<td>240/208V</td>
<td>5.7/4.3 kW</td>
<td>23.8/20.6 A</td>
</tr>
</tbody>
</table>

**Uniform Plumbing Code 413.1 Limitation of Hot Water Temperature for Public Lavatories.**
Hot water delivered for public-use lavatories shall be limited to a maximum temperature of 120°F (49°C) by a device that conforms to ASSE 1070 or CSA B125.3. The water heater thermostat shall not be considered a control for meeting this provision.

**ASSE 1070-2004 Performance Requirements for Water Temperature Limiting Devices**
Water Temperature Limiting Devices shall control & limit the water temperature to fittings for sinks, lavatories or bathtubs and are intended to reduce the risk of scalding. They are intended to supply tempered water to plumbing fixture fittings, or be integral with plumbing fixture fittings supplying tempered water. The device shall be equipped with an adjustable and lockable means to limit the setting towards the hot position.

**Uniform Plumbing Code 413.1 Limitation of Hot Water Temperature for Public Lavatories.**
Hot water delivered for public-use lavatories shall be limited to a maximum temperature of 120°F (49°C) by a device that conforms to ASSE 1070 or CSA B125.3. The water heater thermostat shall not be considered a control for meeting this provision.

**ASSE 1070-2004 Performance Requirements for Water Temperature Limiting Devices**
Water Temperature Limiting Devices shall control & limit the water temperature to fittings for sinks, lavatories or bathtubs and are intended to reduce the risk of scalding. They are intended to supply tempered water to plumbing fixture fittings, or be integral with plumbing fixture fittings supplying tempered water. The device shall be equipped with an adjustable and lockable means to limit the setting towards the hot position.

**Uniform Plumbing Code 413.1 Limitation of Hot Water Temperature for Public Lavatories.**
Hot water delivered for public-use lavatories shall be limited to a maximum temperature of 120°F (49°C) by a device that conforms to ASSE 1070 or CSA B125.3. The water heater thermostat shall not be considered a control for meeting this provision.

**ASSE 1070-2004 Performance Requirements for Water Temperature Limiting Devices**
Water Temperature Limiting Devices shall control & limit the water temperature to fittings for sinks, lavatories or bathtubs and are intended to reduce the risk of scalding. They are intended to supply tempered water to plumbing fixture fittings, or be integral with plumbing fixture fittings supplying tempered water. The device shall be equipped with an adjustable and lockable means to limit the setting towards the hot position.

**Uniform Plumbing Code 413.1 Limitation of Hot Water Temperature for Public Lavatories.**
Hot water delivered for public-use lavatories shall be limited to a maximum temperature of 120°F (49°C) by a device that conforms to ASSE 1070 or CSA B125.3. The water heater thermostat shall not be considered a control for meeting this provision.
DHC-E TLC is a temperature limiting control designed for our DHC-E models.

Mini™-E TLC is a temperature limiting control designed for our Mini™-E models.

Each TLC Assembly includes an ASSE 1070-2004 compliant mixing valve and comes completely assembled. They are sold as separate, add-on kits and do not include a DHC-E or a Mini™-E.

Water Connections:  
- DHC-E TLC: ½" male  
- Mini™-E TLC: ⅜" compression

Advantages of installing a separate external device:

- Separate external limiting devices can be accessed to set or reset the temperature limit without opening the water heater and disrupting service by cutting electricity to the water heater.
- Fixtures that have an integral limiting device meet the requirements of ASSE 1070-2004. If such a fixture is installed, it is not necessary that the water heater have its own temperature limiting device. In these cases there is no need to purchase a water heater with an integral device.
- A separate limiting device installed below the water heater can not leak onto internal water heater circuitry causing mechanical or electrical failure.
- It is easy to ensure that a separate limiting device meets lead-free requirements.
- Total installed costs for the water heater plus a limiting device are easily controlled and cost effective.

Stiebel Eltron DHC-E and Mini™-E tankless water heaters allow locked control of maximum hot water output temperature but they do not meet UPC 413.1 without the addition of an ASSE 1070 device.

DHC-E models can be limited to a maximum 109°F output temperature. This limit is set and secured by a jumper on the printed circuit board inside the water heater and is independent of the external thermostat.

Mini™-E models are factory-set to deliver water at 100°F. They can be ordered custom-set to a different temperature, and can also be field-set by a qualified installer.