

UPC 413.1 is intended to eliminate scalding danger in lavatories with unrestricted public access. It is not intended to apply to private residential bathrooms or commercial bathrooms not open to the general public.

**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.

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

**DHC-E TLC Assembly** Item Number 581012  
Completely assembled, includes ASSE 1070 mixing valve  
**Mixing Valve Only** Item Number 550455  
ASSE 1070 mixing valve alone - 1/2"

Designed for these tankless electric water heaters

Model	Item #	Voltage	kW	Amps
DHC-E 8/10	224201	240/208V	7.2/9.6	30/40 A
		240/208V	5.4/7.2	26/35 A
DHC-E 12	230628	240/208V	12/9 kW	50/44 A

**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 - 3/8" comp.

Designed for these tankless electric water heaters

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

Your distributor is:

**Stiebel Eltron, Inc.**  
17 West Street, West Hatfield, MA 01088  
413.247.3380 | 800.582.8423 | Fax 413.247.3369  
info@stiebel-eltron-usa.com  
www.stiebel-eltron-usa.com

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

\*68-12.2016

**STIEBEL ELTRON**

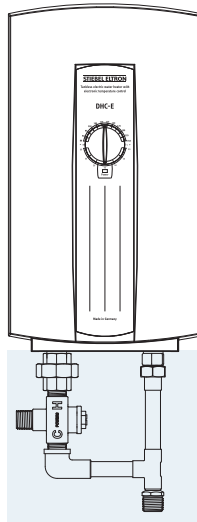
Simply the Best

**TLC**  
Temperature Limiting Control

**ASSE 1070**  
Temperature  
Limiting Control

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





**DHC-E TLC** is a temperature limiting control designed for our DHC-E models.

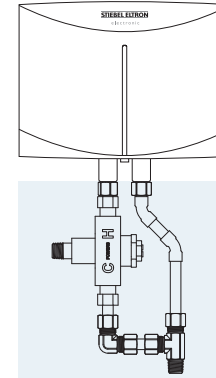
**DHC-E TLC Assembly**  
shown installed on a DHC-E  
(sold separately)

Item Number 581012 \$290 MSRP

**ASSE 1070 Mixing Valve Only**

Mixing valve alone for DHC-E

Item Number 550455 \$99 MSRP



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

**Mini™-E TLC Assembly**  
shown installed on a Mini™-E  
(sold separately)

Item Number 502346 \$290 MSRP

**ASSE 1070 Mixing Valve Only**

Mixing valve alone for Mini™-E

Item Number 550457 \$99 MSRP

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.

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.

**Water Connections:** DHC-E TLC: 1/2" male Mini™-E TLC: 3/8" 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.