

**American Society of Sanitary Engineering
Seal (Certification) Program**

**Factory Audit Inspection Test for:
Water Temperature Limiting Devices**

Tested in accordance with ASSE Standard #1070 • ASSE: 2004

Manufacturer _____

Model No. _____

Address _____

Serial No. _____

Other Identification Markings _____

Size _____

3.1 High Temperature

- (a) What is the pressure of the cold water supply? _____ psi (_____ kPa)
 What is the pressure of the hot water supply? _____ psi (_____ kPa)
 What is the flow rate? _____ GPM (_____ L/m)
- (b) What is the cold water supply temperature? _____ °F (_____ °C)
 What is the hot water supply temperature _____ °F (_____ °C)
 Is there a difference of at least 80°F (26.7°C) between the hot and cold water temperatures? Yes No

Set the outlet temperature at the manufacturer's maximum adjustable setting.

_____ °F (_____ °C)

- (c) Flow water for thirty (30) minutes then check the device. Was there any change in the physical characteristics of the material that shall prevent full compliance with any requirements of this standard? Yes No Questionable

If questionable, explain: _____

In compliance? Yes No

3.2 Working Pressure Test

What was the pressure utilized with the outlet blocked for this test?

_____ psi (_____ kPa)

What was the duration of this test? _____ minutes

What was the pressure applied at the inlets? _____ psi (_____ kPa)

Was there any indication of leakage, damage or distortion to the device?

Yes No Questionable

If questionable, explain: _____

In compliance? Yes No

3.5 Regulation and Temperature Variation Test

- (a) What was the pressure of the hot water inlet? _____ psi (_____ kPa)
 What was the pressure of the cold water inlet? _____ psi (_____ kPa)
- (b) What was the hot water supply temperature? _____ °F (_____ °C)
- (c) What was the cold water supply temperature? _____ °F (_____ °C)
- (d) What was the manufacturer's stated minimum flow rate?
 _____ GPM (_____ L/m)
- (e) Was the limit stop adjusted in accordance with the manufacturer's
 recommendations? Yes No
- (f) What was the mixed water outlet temperature? _____ °F (_____ °C)
 Flow water for one (1) minute, then continuously monitor the outlet temperatures.

3.5.1 Supply Pressure and Temperature changes at 105.0°F (40.6°C) Setting
 Part A

Step 1: Increase the hot water supply pressure by 20%

After five (5) seconds, note the outlet temperature for a maximum of 20 seconds
 or until stabilized. Record the outlet temperature. _____ °F (_____ °C)

Return hot water supply pressure to 45.0 psi (310.3 kPa).

Step 2: Decrease the hot water supply pressure by 20%.

After five (5) seconds, note the outlet temperature for a maximum of 20 seconds
 or until stabilized. Record the outlet temperature. _____ °F (_____ °C)

Return hot water supply pressure to 45.0 psi (310.3 kPa).

Step 3: Increase the cold water supply pressure by 20%.

After five (5) seconds, note the outlet temperature for a maximum of 20 seconds
 or until stabilized. Record the outlet temperature. _____ °F (_____ °C)

Return the cold water supply pressure to 45.0 psi (310.3 kPa).

Step 4: Decrease the cold water supply pressure by 20%

After five (5) seconds, note the outlet temperature for a maximum of 20
 seconds or until stabilized. Record the outlet temperature.
 _____ °F (_____ °C)

Return the cold water supply pressure to 45.0 psi (310.3 kPa).

Part B: Increase the hot water temperature to 165.0°F ± 5°F (73.9°C ± 2.8°C). Without
 adjusting the limit stop, adjust the device outlet temperature setting to its
 maximum.

After five (5) seconds, note the outlet temperature for 20 seconds maximum or
 until stabilized. Record the outlet temperature. _____ °F (_____ °C)

3.5.3 Did the outlet temperature ever go over 120°F (48.9°C)? Yes No

Did the device maintain the outlet water temperature within ± 7°F (± 3.9°C) for all the steps noted
 above? Yes No

In compliance? Yes No Questionable

If questionable, explain: _____

TESTING AGENCY _____

ADDRESS _____

PHONE: _____ FAX: _____

TEST ENGINEER(S) _____

We certify that the evaluations are based on our best judgments and that the test data recorded is an accurate record of the performance of the device on test.

Signature of the official of the agency: _____

Title of the official: _____ Date: _____

Signature and seal of the Registered Professional Engineer supervising the laboratory evaluation:

Signature



Seal