§ 429.28 Faucets.

(a) Sampling plan for selection of units for testing. (1) The requirements of §429.11 are applicable to faucets; and
(2) For each basic model of faucet, a sample of sufficient size shall be randomly selected and tested to ensure that any represented value of water consumption of a basic model for which consumers favor lower values shall be no less than the higher of:
(i) The mean of the sample, where:
\[
\bar{x} = \frac{1}{n} \sum_{i=1}^{n} x_i
\]
and, \(\bar{x}\) is the sample mean; \(n\) is the number of samples; and \(x_i\) is the \(i^{th}\) sample;
Or,
(ii) The upper 95 percent confidence limit (UCL) of the true mean divided by 1.05, where:
\[
UCL = \bar{x} + t_{0.95} \left( \frac{s}{\sqrt{n}} \right)
\]
And \(\bar{x}\) is the sample mean; \(s\) is the sample standard deviation; \(n\) is the number of samples; and \(t_{0.95}\) is the t statistic for a 95% one-tailed confidence interval with \(n-1\) degrees of freedom (from Appendix A).

(b) Certification reports. (1) The requirements of §429.12 are applicable to faucets; and
(2) Pursuant to §429.12(b)(13), a certification report shall include the following public product-specific information: The maximum water use in gallons per minute (gpm) or, in the case of metering faucets, gallons per cycle (gal/cycle) for each faucet and the flow water pressure in pounds per square inch (psi).

[76 FR 12451, Mar. 7, 2011; 76 FR 24771, May 2, 2011]

§ 429.29 Showerheads.

(a) Sampling plan for selection of units for testing. (1) The requirements of §429.11 are applicable to showerheads; and
(2) For each basic model of a showerhead, a sample of sufficient size shall be randomly selected and tested to ensure that any represented value of water consumption of a basic model for which consumers favor lower values shall be greater than or equal to the higher of:
(i) The mean of the sample, where:
\[
\bar{x} = \frac{1}{n} \sum_{i=1}^{n} x_i
\]
and, \(\bar{x}\) is the sample mean; \(n\) is the number of samples; and \(x_i\) is the \(i^{th}\) sample;
Or,
(ii) The upper 95 percent confidence limit (UCL) of the true mean divided by 1.05, where:
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\( UCL = \bar{x} + t_{0.95} \left( \frac{s}{\sqrt{n}} \right) \)

And \( \bar{x} \) is the sample mean; \( s \) is the sample standard deviation; \( n \) is the number of samples; and \( t_{0.95} \) is the t statistic for a 95% one-tailed confidence interval with \( n-1 \) degrees of freedom (from Appendix A).

\( \bar{x} = \frac{1}{n} \sum_{i=1}^{n} x_i \)

and, \( \bar{x} \) is the sample mean; \( n \) is the number of samples; and \( x_i \) is the \( i^{th} \) sample; or,

\( UCL = \bar{x} + t_{0.90} \left( \frac{s}{\sqrt{n}} \right) \)

And \( \bar{x} \) is the sample mean; \( s \) is the sample standard deviation; \( n \) is the number of samples; and \( t_{0.90} \) is the t statistic for a 90% one-tailed confidence interval with \( n-1 \) degrees of freedom (from Appendix A).

§ 429.30 Water closets.

(a) Sampling plan for selection of units for testing. (1) The requirements of §429.11 are applicable to water closets; and

(2) Pursuant to §429.12(b)(13), a certification report shall include the following public product-specific information: The maximum water use in gallons per minute (gpm) and the maximum flow water pressure in pounds per square inch (psi).

(3) Pursuant to §429.12(b)(13), a certification report shall include the following additional product-specific information: A declaration that the showerhead meets the requirements of ASME/ANSI A112.18.1M–1996, 7.4.4(a).

[76 FR 12451, Mar. 7, 2011; 76 FR 24771, May 2, 2011]