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TEST REPORT

Report Number: 2195-23007

Report Issued: January 31, 2023 **Project No.:** 39776

Client: SmartFaucets Inc.
7545 Irvine Center Drive, Ste 200
Irvine, CA 92618 **Contact:** Ms. Joanna Boey

Source of Samples: The samples were sent by SmartFaucets Inc. and received by IAPMO R&T Lab in good condition on November 16, 2022 and December 28, 2022.

Date of Testing: December 7, 2022 through January 17, 2023.

Sample Description: Electronic sensor lavatory faucet

Model No.: SMF model C

Notes:

- The faucet can be operated by motion sensor or touch sensor.
- The faucet has chrome finish and Max. rated flow rate of 1.0 gpm.

Scope of Testing: The purpose of the testing was to determine if the samples tested of the electronic sensor lavatory faucet met the applicable requirements of EPA WaterSense High-Efficiency Lavatory Faucet Specification (Version 1.0, October 1, 2007 Edition) with Clarifications LF-1214-1 and LF-1214-2 dated December 18, 2014.

Conclusion: The samples tested of the electronic sensor lavatory faucet, model SMF model C, from SmartFaucets Inc. COMPLIED with the applicable requirements of EPA WaterSense High-Efficiency Lavatory Faucet Specification (Version 1.0, October 1, 2007 Edition) with Clarifications LF-1214-1 and LF-1214-2 dated December 18, 2014.

Note: Section 2.1 (ASME A112.18.1-2018/CSA B125.1-18 requirements) was tested under IAPMO R&T Lab report No. 2195-23006.

I understand that intentionally submitting false information to the U.S. government or its agent is a criminal violation of the False Statements Act, Title 18 U.S.C. section 1001.

Tested by,

Simon Hadi, Test Technician

Reviewed by,

Andy Ho, Director of Fitting Testing

Primary Standard: EPA WaterSense High-Efficiency Lavatory Faucet Specification (Version 1.0, October 1, 2007 Edition), sections tested / evaluated:

2.0 Water Efficiency and Performance Criteria
3.0 Non-Adjustability Criteria
4.0 Flow Rate Marking

Test Results: All tests and evaluations were conducted per the written procedures specified in the standard.

EPA WaterSense High-Efficiency Lavatory Faucet Specification (Version 1.0, October 1, 2007 Edition)

2.0 Water Efficiency and Performance Criteria – COMPLIED

2.1 The lavatory faucet conformed to the applicable requirements in ASME A112.18.1-2018/CSA B125.1-18. *Refer to IAPMO R&T Lab report No. 2195-23006 for details.*

2.2 The flow rate of the lavatory faucet was tested in accordance with the procedures in ASME A112.18.1-2018/CSA B125.1-18 and met the following criteria:

- The maximum flow rate did not exceed 1.5 gpm (5.7 L/min) at a flowing pressure of 60 psi at the inlet.
- The minimum flow rate was not less than 0.8 gpm (3.0 L/min) at a flowing pressure of 20 psi at the inlet.

Finding:

Model	Maximum Flow Rate at 60 psi (gpm)			Minimum Flow Rate at 20 psi (gpm)		
	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3
SMF model C	0.96	0.97	1.00	0.80	0.82	0.82

2.3 The flow rate was tested in accordance with the procedures in ASME A112.18.1-2018/CSA B125.1-18 and met the testing verification protocol as described in 10 CFR 429.28 (including modifications specified by WaterSense for evaluating minimum flow rate).

Note: *The 10 CFR 429.28 methodology has superseded 10 CFR 430 Subpart F, Appendix B per WaterSense Clarifications LF-1214-1 and LF-1214-2 dated December 18, 2014.*

Finding:

Maximum Flow Rate at 60 psi (gpm)			
Model	Sample Mean ($\bar{x}$)	UCL of True Mean Divided by 1.05	Mfr Specified Max. Flow Rate
SMF model C	1.0	1.0	1.0

Maximum Flow Rate Requirement: The values of the sample mean ($\bar{x}$) and the upper 95% confidence limit (UCL) of the true mean divided by 1.05 must be equal to or less than 1.5 gpm or the manufacturer's specified (rated) maximum flow rate, whichever is lower.

Minimum Flow Rate at 20 psi (gpm)			
Model	Sample Mean ($\bar{x}$)	LCL of True Mean Multiplied by 1.05	Min. Required Flow Rate
SMF model C	0.8	0.8	0.8

Minimum Flow Rate Requirement: The values of the sample mean ($\bar{x}$) and the lower 95% confidence limit (LCL) of the true mean multiplied by 1.05 must be equal to or greater than 0.8 gpm.

3.0 Non-Adjustability Criteria – COMPLIED

The lavatory faucet was not packaged, marked, or provided with instructions directing the user to an alternative water-use setting that would override the maximum flow rate of 1.5 gpm at 60 psi, as established by the specification.

Note: No maintenance instruction was provided.

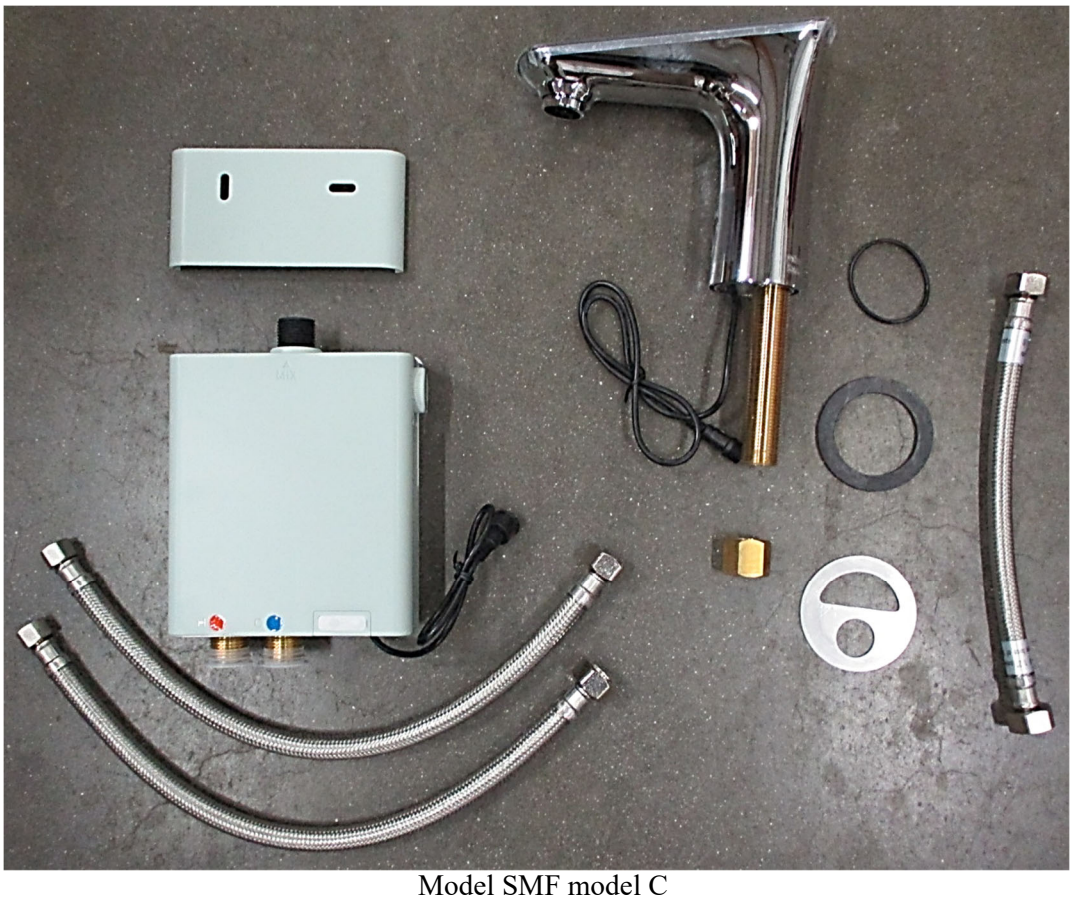
4.0 Flow Rate Marking – COMPLIED (P*er client's provided flow rate marking images and package labeling image)*

The product and/or packaging shall be marked in accordance with 16 CFR 305.24(a) with the maximum flow rate in gpm and L/min as determined through the testing and compliance with this specification. The marking shall be in gpm and L/min in two or three digit resolutions.

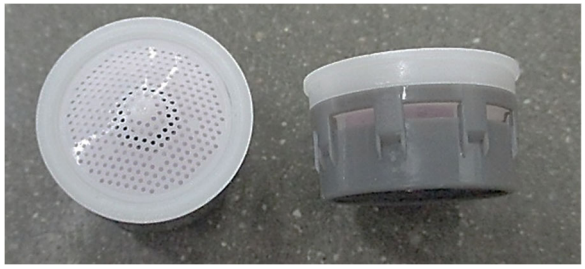
Note: *16 CFR 305.24(a) has superseded 16 CFR 305.11(f) and the flow rate marking is acceptable in two or three digital resolutions per WaterSense Clarification LF-1221-1 dated December 2, 2021.*

Finding: 1.0 gpm and 3.8 L/min on aerator housing and packaging.

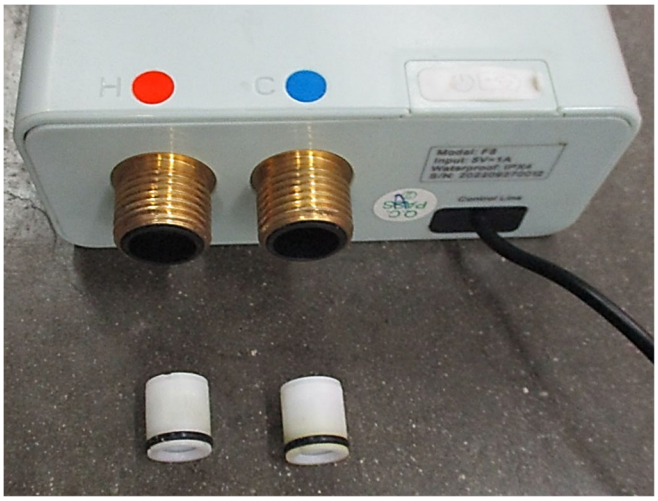
Photographs of Sample Tested:



Model SMF model C

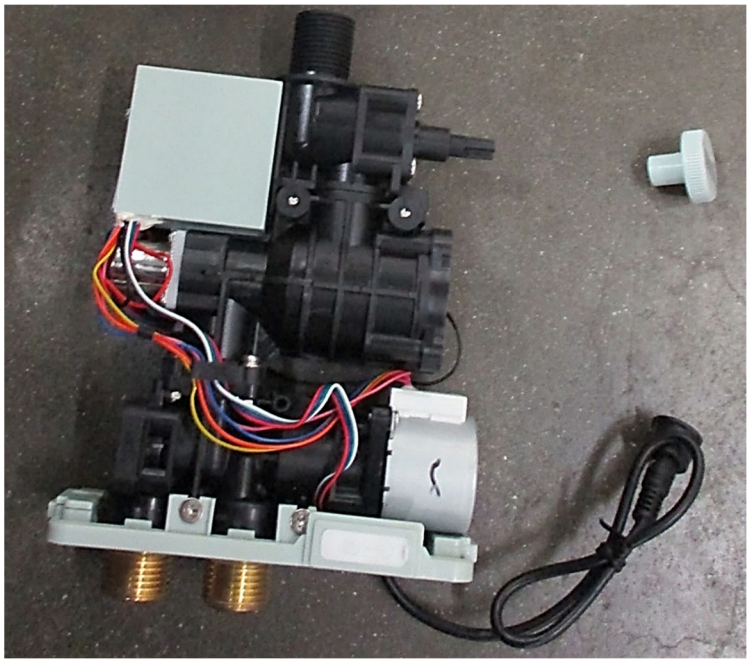


1.0gpm Aerator Used



Check Valves on Control Box Inlets

Components Inside Control Box



Markings on Inlet Flexible Connectors

Markings on Received Faucet Samples

Date of Manufacture Marking on Control Box

Client's Provided Flow Rate Marking Images

Client's Provided Package Labeling Image