

CLIENT: Instant-Off Inc.
4400 118th Avenue North, Suite 204
Clearwater, FL 33762

Test Report No: TJ2324

Date: August 26, 2014

SAMPLE ID: Automatic Water Controller

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: Samples were received at QAI on July 31, 2014.

TESTING PERIOD: August 12, 2014.

AUTHORIZATION: Signed Work Order by Steve Gordon.

TEST PROCEDURE: Test and evaluate the submitted samples to *EPA WaterSense for Lavatory Faucets*.

TEST RESULTS: The samples **meet** the criteria of EPA WaterSense for Lavatory Faucets. Detailed test results are presented in the subsequent pages of this report.

Prepared By



Christopher Clark
Laboratory Test Technician

**Signed for and on behalf of
QAI Laboratories, Inc.**



Joe Cavett
Laboratory Project Manager

Test Procedure and Results

EPA (WaterSense) High-Efficiency Lavatory Faucet Specification

1.0 Scope and Objective

Reference

Applicable to lavatory faucets, lavatory faucet accessories specifically designed to control the flow of water, and any other lavatory faucet technologies that meet these performance specifications.

This specification applies to lavatory faucets in private use, such as in residences, and private restrooms in hotels and hospitals. Metering faucets, lavatory faucets in public use, and residential kitchen faucets are not covered by this specification.

2.0 Water Efficiency and Performance Criteria

- 2.1 Lavatory faucets and lavatory faucet accessories do conform to the applicable requirements in ASME A112.18.1/CSA B125.1.

ASME A112.18.1/CSA B125.1 Compliance:
QAI Laboratories report TJ1161

Pass

NSF/ANSI Standard 61, Section 9 Compliance:

**Not
Evaluated**

- 2.2 The lavatory faucets and lavatory faucet accessories do comply with the maximum flow rate requirement of 1.5 gallons per minute (gpm) (5.7 liters per minute [L/min]) when tested in accordance with the procedures described in ASME A112.18.1/CSA B125.1 at a flowing pressure to the inlet of 60 pounds per square inch (psi). Also, the lavatory faucets and lavatory faucet accessories do comply with the minimum flow rate requirement of 0.8 gpm (3.0 L/min) when tested in accordance with the procedures described in ASME A112.18.1/CSA B125.1 at a flowing pressure to the inlet of 20 psi.

Pass

- 2.3 The flow rates, which were tested in accordance with the procedures defined in ASME A112.18.1/CSA B125.1, met the testing verification protocol as described in 10 CFR 430 Subpart F, Appendix B.

Pass

First Sample Size	4
t-statistic;	3.182

		Pressure (psi)	Gallons per Minute (gpm)	Liters per Minute (L/min)	
n_1	Sample 1	60	1.39	5.3863	1.33
		20	0.82	3.1775	1.36
	Sample 2	60	1.39	5.3863	1.35
		20	0.84	3.2550	1.35
	Sample 3	60	1.29	4.9988	
		20	0.81	3.1388	
	Sample 4	60	1.32	5.1150	
		20	0.81	3.1388	

Maximum Flow Rate (60 psi)		
	Gallons per Minute (gpm)	Liter per Minute (L/min)
Flow Rate Requirement	1.5	5.7
Average Flow Rate	1.35	5.2
Standard Deviation	0.05	0.20
Standard Error	0.03	0.10
Upper Control Limit	1.58	6.0
Lower Control Limit	1.42	5.4
Second Sample Size	-2	

Minimum Flow Rate (20 psi)		
	Gallons per Minute (gpm)	Liter per Minute (L/min)
Flow Rate Requirement	0.8	3
Average Flow Rate	0.82	3.2
Standard Deviation	0.01	0.05
Standard Error	0.01	0.03
Upper Control Limit	0.82	3.1
Lower Control Limit	0.78	2.9

-3

Interpretation of Data:

Since the Max. Mean of the first sample set is equal to the Lower Control Limit, and the Min. Mean of the first sample set is equal to the Upper Control Limit, the samples do comply with the requirements of EPA WaterSense High-Efficiency Lavatory Faucet Specification, Version 1.0 (October 1, 2007).

3.0 Non-Adjustability Criteria

Pass

The lavatory faucets and lavatory faucet accessories are 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.

The maintenance instructions related to this product, including changing or cleaning faucet accessories, do direct the user on how to return the product to its intended maximum flow rate.

4.0 Flow Rate Marking

Pass

The product and/or product packaging is marked in accordance with 16 CFR 305.11 (f) with the maximum flow rate in gpm and L/min in two digit resolution as determined through testing and compliance with EPA WaterSense High-Efficiency Lavatory Faucet Specification, Version 1.0 (October 1, 2007).

Packaging: Maximum flow rate is 1.5 gpm (5.7 L/min) at 60 psi.

Product: 1.5 gpm / 5.7 L/min or 1.5 GPM / 5.7 LPM

*** END OF TEST REPORT ***