# TEST REPORT

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**Report Number:** 1707-12006

**Report Issued:** August 10, 2012 **Project No.:** 20461

**Client:** Watermiser Manufacturing Company
1106 Second Street, Suite # 637
Encinitas, CA 92024 **Contact:** Mr. Ken Margulis

**Source of Samples:** The samples were sent by Watermiser Manufacturing Company and received by IAPMO R&T Lab in good condition on May 23, 2012 and July 19, 2012.

**Date of Testing:** June 11, 2012 through August 2, 2012

**Sample Description:** 303 stainless steel faucet flow control valves

Models: FCVSS – 0.5 GPM and FCVSS – 0.75 GPM

**Notes:**

- The faucet flow control valves are intended to be sold and used in pair, so they were tested in pair.
- The flow control valves are intended for both lavatory faucet and kitchen faucet applications.

**Scope of Testing:** The purpose of the testing was to determine if the samples tested of the 303 stainless steel faucet flow control valves met the applicable requirements of IAPMO Green Plumbing & Mechanical Code Supplement - 2010, Cal Green - 2010 and LEED® -2009.

**Conclusion: The samples tested of the 303 stainless steel faucet flow control valves, models FCVSS – 0.5 GPM and FCVSS – 0.75 GPM, Watermiser Manufacturing Company met the applicable requirements of IAPMO Green Plumbing & Mechanical Code Supplement - 2010, Cal Green - 2010 and LEED® - 2009.**

**Note: The compliance conditions (tested in pair) are shown in finding tables on Page 4 of this report.**

By our signatures below we certify that all the testing and sample preparation for this report was performed under continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated.

Tested by,

Simon Hadi, Test Technician

Reviewed by,

Andy Ho, Manager, Fitting Testing

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**Primary Specifications:** IAPMO Green Plumbing & Mechanical Code Supplement - 2010, Cal Green - 2010 and LEED® - 2009

**Test Results:** All tests and evaluations were conducted per the written procedures specified in the Specifications and their reference standards.

## IAPMO Green Plumbing & Mechanical Code Supplement – 2010

Section 402.4 Lavatory Faucets

Section 402.4 .1 Lavatory Faucets in Residences, Apartments, and Private Bathrooms in Lodging Facility, Hospitals and Patient Care Facilities – COMPLIED *(For Model FCVSS – 0.75 GPM for Lavatory Faucet Application Only)*

The flow control valve tested (for lavatory faucet application) did not exceed 1.5 gpm at 60 psi when tested per ASME A112.18.1-2011/CSA B125.1-11.

The flow control valve tested (for lavatory faucet application) was tested to the EPA WaterSense High-Efficiency Lavatory Faucet Specification under IAPMO R&T Lab report # 1707-12005.

## Cal Green – 2010

Chapter 4 Residential Mandatory Measures

Section 4.303.1 Twenty Percent Savings – COMPLIED

The faucet flow control valves tested met the reduced flow rate by at least 20% as specified in Table 4.303.2.

Maximum Allowable Flow Rate Requirements:

For Lavatory Faucet Application: 1.5 gpm at 60 psi

For Kitchen Faucet Application: 1.8 gpm at 60 psi

*Finding: Refer to finding tables on Page 4 for the actual flow rate and percent reduction.*

Section 4.303.3 Plumbing Fixtures and Fittings – COMPLIED

The faucet flow control valves were tested to ASME A112.18.1-2011/CSA B125.1-11 under IAPMO R&T Lab report # 1707-12001-002.

Chapter 5 Nonresidential Mandatory Measures

Section 5.303.2 Twenty Percent Savings – COMPLIED *(For Kitchen Faucet Application Only)*

The faucet flow control valves tested met the reduced flow rate by at least 20% as specified in Table 5.303.2.3.

Maximum Allowable Flow Rate Requirements:

For Kitchen Faucet Application: 1.8 gpm at 60 psi

*Finding: Refer to finding tables on Page 4 for the actual flow rate and percent reduction.*

Section 5.303.6 Plumbing Fixtures and Fittings – COMPLIED *(For Kitchen Faucet Application Only)*

The faucet flow control valves were tested to ASME A112.18.1-2011/CSA B125.1-11 under IAPMO R&T Lab report # 1707-12001-002.

Appendix A4 Residential Voluntary Measures

Section A4.303.1 Kitchen Faucets and Diswashers – COMPLIED as Tier 1 *(For Kitchen Faucet Application Only)*

The faucet flow control valves had a flow rate not greater than 1.5 gpm at 60 psi.

**LEED® - 2009**

WE Prerequisite 1: Water Use Reduction – COMPLIED

The faucet flow control valves tested met the reduced flow rate by at least 20% of the current baseline as shown in the Table (based on the Energy Policy Act of 1992).

WE Credit 3: Water Use Reduction – COMPLIED

The faucet flow control valves tested met the reduced flow rate by at least 30% of the current baseline as shown in the Table (based on the Energy Policy Act of 1992).

| Percentage Reduction | Points |
|---|---|
| 30% | 2 |
| 35% | 3 |
| 40% | 4 |

*Finding: Refer to finding tables on Page 4 for the actual point.*

**Finding:**

**For Lavatory Faucet Application (Used in Pair):**

| Product | Model No. | Baseline (gpm) | Mfr. Flow Rate (gpm) | Percent Reduction | Actual Flow Rate (gpm) | IAPMO Green | Cal Green | LEED® |
|---|---|---|---|---|---|---|---|---|
| Lavatory Faucet Flow Control Valve | FCVSS – 0.5 GPM | 2.2 | 1.0 (for pair) | 55% | 1.0 | - | Residential | WE Credit 3 4 points |
| Lavatory Faucet Flow Control Valve | FCVSS – 0.75 GPM | 2.2 | 1.5 (for pair) | 32% | 1.5 | Residential* | Residential | WE Credit 3 2 points |

* For Lavatory Faucets Used in Residences, Apartments, and Private Bathrooms in Lodging Facility, Hospitals and Patient Care Facilities.

**For Kitchen Faucet Application (Used in Pair):**

| Product | Model No. | Baseline (gpm) | Mfr. Flow Rate (gpm) | Percent Reduction | Actual Flow Rate (gpm) | IAPMO Green | Cal Green | LEED® |
|---|---|---|---|---|---|---|---|---|
| Kitchen Faucet Flow Control Valve | FCVSS – 0.5 GPM | 2.2 | 1.0 (for pair) | 55% | 1.0 | - | Residential/ NonResidential Tier 1 Building | WE Credit 3 4 points |
| Kitchen Faucet Flow Control Valve | FCVSS – 0.75 GPM | 2.2 | 1.5 (for pair) | 32% | 1.5 | - | Residential/ NonResidential Tier 1 Building | WE Credit 3 2 points |

**Photograph of Sample Tested:**

Model FCVSS – 0.5 GPM / FCVSS – 0.75GPM