

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5589-09

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California Type Evaluation Program
Certificate of Approval
for Weighing and Measuring Devices

For:

Water Vending Machine
See page 2 for Model matrix

Submitted by:

Aqua Products, Inc.
6351 Burnham Ave., Ste. B
Buena Park, CA 90621
714-670-0691
714-670-7020
Contact: Daniel Suh

Standard Features and Options

- Gems Flow Sensor, Model 17395-C (meter)

Two basic models:

- Single-button / Single price
- Three-button / Three price

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: February 27, 2009



Edmund E. Williams, Director

Aqua Products, Inc.
Water Vending Machine

Application: Approved for single and multiple vend of water based on dispenser model used.

Identification: Identification is located on the front of the vending machine and is visible after installation.

Model Matrix:

<p style="text-align: center;">SINGLE-BUTTON / SINGLE PRICE ONE button selection on this model. Multiple-Compartment models have separately dedicated money acceptance & logic control components for EACH compartment.</p>		<p style="text-align: center;">THREE-BUTTON / THREE PRICE Customer selects ONE of THREE buttons. Each button corresponds to one fixed measured quantity and Price. Multiple-Compartment models have separately dedicated money acceptance & logic control components for EACH compartment.</p>	
<p>Single vend of 1 to 5 Gallons. Single Digit Electronic Display shows number of Gallons purchased. Product is dispensed when customer pushes vend start button.</p>		<p>Electronic Digital Display shows cumulative amount of customer deposit and is updated as each coin/bill is accepted. Choices: 1, 3 & 5 Gallon</p>	
<p style="text-align: center;">Window-mount dispensers</p>	<p style="text-align: center;">Single-Compartment Model WDQ</p>	<p style="text-align: center;">Window-mount dispensers</p>	<p style="text-align: center;">Single-Compartment Model WDQ</p>
	<p style="text-align: center;">Double-Compartment Model WDQ-2</p>		<p style="text-align: center;">Double-Compartment Model WDQ-2</p>
<p style="text-align: center;">Water vending machine fiberglass cabinet (All-weather)</p>	<p style="text-align: center;">Single-Compartment Model DQ1-600</p>	<p style="text-align: center;">Water vending machine fiberglass cabinet (All-weather)</p>	<p style="text-align: center;">Single-Compartment Model DQ1-600</p>
	<p style="text-align: center;">Double-Compartment Model DQ2-1200</p>		<p style="text-align: center;">Double-Compartment Model DQ2-1200</p>
<p style="text-align: center;">Water vending machine stainless/steel cabinet</p>	<p style="text-align: center;">2-Port Model WS2 (1800 gallons per day capacity)</p>	<p style="text-align: center;">Water vending machine stainless/steel cabinet</p>	<p style="text-align: center;">2-Port Model WS2 (1800 gallons per day capacity)</p>
	<p style="text-align: center;">4-Port Model WS4 (3600 gallons per day capacity)</p>		<p style="text-align: center;">4-Port Model WS4 (3600 gallons per day capacity)</p>

Note: The term compartment refers to the area where the water buyer places their container which may or may not be an enclosed area.

Sealing: The housing of the controller board(s) is sealable by placing two tamper evident seals on the parting lines at opposite ends of the controller board(s) housing. The controller board(s) housing is located inside the vending machine cabinet.

Test Conditions: Models WS4, 4-port, three-button, three price and DQ1-600 single-button, single price were tested for accuracy, sealing requirements, and marking requirements. .

Operation: Upon button selection water passes through an in-line flow sensor (meter) which provides pulse data to the controller, representing the volume of water dispensed. The controller starts and stops delivery of water by controlling a valve down stream of the flow sensor. Some variances exist from machine to machine that may affect accuracy of the flow sensor's data. The controller is also used to adjust (calibrate) for such variances. Dip switches on the controller board are placed into a setting which results in accurately measured quantities of water when verified with a certified test measure.

**Aqua Products, Inc.
Water Vending Machine**

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2008 Edition

Tested By: Dan Reiswig (CA), Paul Jordan (CA)



Model DQ2-1200
Single-Button/Single Price



Model WS4 (4 port)
Three-Button/Three Price