

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

Certificate Number: 5358(c)-13
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California Type Evaluation Program
Certificate of Approval
for Weighing and Measuring Devices

For:

Water Dispenser
Coin, Bill, or Card Operated

Models: G21B and G2C2

Submitted by:

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Standard Features and Options

Standard Features


- 1, 2, 3, and 5 Gallon Vends
- AMCO Model C700 Water Meter with B-Type Pulser
- Controller Model G2
- Self-Contained Freestanding System
- Coin or Bill Activated Vends Models Coinco and Conlux
- Customer LED Indicator Accumulates Value of Coin Drops
- Lighted Indicator when "Correct Change" is Required
- Lighted Indicator when "Sold-Out" Condition Exists

Options

- Glacier Model PuMA Controller with Pulse Flow Meter (Paired Set) or AMCO Model C-700 Water Meter
- Norgas Model VersaMag Water Meter
- 12 VDC Analog Gallon Totalizer
- Credit or Debit Card Reading System

NOTE: Money-operated type devices shall have clearly and conspicuously displayed adequate information detailing the method for the return of monies when the product or service cannot be obtained. This information shall include the name, address, and phone number of the local servicing agency for the device.

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: August 19, 2013

Kristin J. Macey, Director

Glacier Water Services, Inc.
Water Dispenser, Coin or Card Operated / G21B and G2C2

Application: Approved for use as a water vending dispenser.

Identification: The identification badge is located on the upper right side of the dispenser cabinet or on the bottom right corner of the machine under a protective transparent polycarbonate cover.

Sealing: The Norgas model Versamag (Certificate of Approval [COA] #5696-12) and the AMCO model C-700 water meter (COA #5100(e)-11) is located in the dispenser cabinet and can be sealed with a wire security seal threaded through a hole on the register locking ring to a hole on the measuring chamber.

The optional PuMA controller with a pulse flow meter system may be used in place of the water meters. The PuMA controller with a pulse flow meter can be sealed with a wire security sealing provision with drilled holes in the PuMA controller box and cover. The connection for the pulsed flow meter wires is located inside the box.

Operation: This device is a card or cash activated vending dispenser designed to deliver water in single, uninterrupted quantities of 1, 2, 3, or 5 gallons. Delivered volume is regulated by an AMCO model C-700 water meter, Norgas model VersaMag water meter, or the optional PuMA controller with a pulse flow meter. The AMCO water meter is equipped with a "Model Type B," self-powered generator which produces pulses for remote systems. The optional PuMA controller and pulsed flow meter are a paired set with one serial number. The flow meter has a 12 VDC analog gallon totalizer located inside the cabinet near the pulsed flow meter and PuMA controller.

A display indicates the amount required to activate a product-select button and start delivery. An indicator displays the cumulative value of money deposited. The LCD display will indicate "insert correct change" when the system has insufficient change to refund excess deposits. A credit of \$2.00 is displayed when a credit card or debit card is used. This is merely a pre-authorization and does not reflect a charge being made to the card. Once a vend size is used, the exact amount of the charge will be displayed. When product is not available, the display will indicate "sold-out", at which point dispensing is not allowed and all payment systems are disabled so that no funds are accepted.

Test Conditions: This California Type Evaluation Program (CTEP) COA was issued to add a replacement (Norgas Model VersaMag CA 5696-12) water meter for the AMCO model C-700. Field tests were conducted to verify the accuracy of the 1 and 5 gallon water vends with the water dispensing system.

Certificate of Approval Number 5358(b)-13: This CTEP COA was issued to add the model G2C2 that is an exact duplicate of the model G21B machine that has already been type approved. The only difference is the cabinet. All components including the controller, payment systems, wiring harnesses and metering are exactly the same. The only difference is that the cabinet is about 52 percent of the size of the standard model G21B cabinet.

Certificate of Approval Number 5358(a)-13: The emphasis of the evaluation was on device design, accuracy, marking, agreement of money indications for credit/debit card transactions, and sealing requirements of the flow sensor and PuMA controller. Factory tests were conducted to verify the accuracy of the 1, 2, 3, and 5 gallon water vends with the new flow meter system. A total of 2061 vends of throughput and a period of 27 days was recorded between the initial and permanence tests to ensure that long-term accuracy still meets the tolerance.

Certificate of Approval Number 5358-03: The emphasis of the evaluation was on device design, accuracy, and repeatability requirements. Field tests were conducted to verify the coin and dollar bill mechanism and the accuracy of the 1, 2, 3, and 5 gallon water vends. A total of 2217 vends of throughput were recorded between the initial and permanence tests to ensure that long-term accuracy still meets the tolerance.

Evaluated By: J. Byers (CA), P. Jordan (CA), 2003; J. Roach (CA) 2013

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2013 Edition

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Glacier Water Services, Inc.
Water Dispenser, Coin or Card Operated / G21B and G2C2

Example(s) of Device:



Model G21B

ID Badge Locations
(under a transparent polycarbonate cover)



Model G2C2



Norgas VersaMag Sealing Provisions



AMCO C-700 Sealing Provisions