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› [DEMA One Portable Chemical Dilution Control Dispenser User Manual](#)

DEMA DM1DGAP.1AMZ

DEMA One Portable Chemical Dilution Control Dispenser

Model: DM1DGAP.1AMZ

INTRODUCTION

The DEMA One Portable Chemical Dilution Control Dispenser is designed for efficient and precise chemical dilution in various professional settings. It offers a portable solution for filling mop buckets and spray bottles with pre-diluted chemicals, eliminating the need for fixed wall-mounted dispensers. Its ergonomic design ensures ease of use and safety for housekeeping and custodial staff.

IMPORTANT SAFETY INFORMATION

Please read all safety warnings and instructions before operating the DEMA One dispenser. Failure to do so may result in injury or damage.

- This dispenser is designed for use with water pressure between 30-70 psi. If your water pressure exceeds 70 psi, it is recommended to use a pressure regulator with this system to ensure accurate chemical dilutions.
- All installations must comply with local plumbing codes and utilize approved backflow prevention devices.
- Always shut off the water supply to the dispenser when it is not in use.
- Always wear appropriate protective clothing and eyewear when handling chemical products.

PRODUCT OVERVIEW

The DEMA One dispenser is a compact and versatile unit designed for portable chemical dilution. It features a robust construction and intuitive controls for ease of operation.



Figure 1: Front view of the DEMA One dispenser attached to a chemical container.



Figure 2: Side view illustrating the chemical suction tube and water inlet connection point.

Key Components:

- **Dispenser Unit:** The main body housing the dilution mechanism.
- **Chemical Suction Straws:** Tubes that draw chemical concentrate from the container.
- **Metering Tips:** Small inserts used to control the dilution ratio (14 tips included).
- **Container Connection:** Designed to fit most common 1/2 gallon and 1 gallon chemical containers with a 38mm neck.
- **Thumb Switch:** Controls activation modes, with an optional lock on/off feature.
- **Water Inlet:** Connection point for the water supply.

SETUP

1. Attach to Chemical Container:

Ensure the chemical container has a 38mm neck. Insert the appropriate chemical suction straw into the chemical container. Screw the DEMA One dispenser securely onto the container's neck until hand-tight. The dispenser comes with various suction straws to accommodate different container depths.

2. Select Dilution Ratio (Metering Tip):

Refer to the included documentation for the metering tip chart. Select the desired metering tip based on the required dilution ratio for your chemical and application (e.g., mop bucket fill, spray bottle fill). Insert the chosen metering tip into the designated slot on the dispenser. The dispenser is capable of diluting chemicals between 1:3 and 1:296 depending on flow rate and chemical viscosity.

3. Connect Water Supply:

Connect a standard water hose or faucet adapter to the water inlet on the DEMA One dispenser. Ensure the connection is secure to prevent leaks. Verify that your water pressure is within the recommended 30-70 psi range. If higher, use a pressure regulator.



Figure 3: Proper setup showing water connection and filling a mop bucket.

OPERATING INSTRUCTIONS

The DEMA One dispenser offers two primary flow rates for different applications:

1. Filling Mop Buckets and Auto-Scrubbers (4 GPM):

Position the dispenser's nozzle over the mop bucket or auto-scrubber. Activate the dispenser by pressing the thumb switch. The dispenser will deliver diluted solution at approximately 4 gallons per minute (GPM), ideal for larger containers. You can use the lock on/off feature on the thumb switch for continuous flow without holding.

2. Filling Spray Bottles (1 GPM):

Position the dispenser's nozzle into the opening of the spray bottle. Activate the dispenser by pressing the thumb switch. The dispenser will deliver diluted solution at approximately 1 gallon per minute (GPM), suitable for smaller spray bottles. Monitor the fill level to prevent overfilling.



Figure 4: Filling a spray bottle with the DEMA One dispenser.

To stop the flow, release the thumb switch or disengage the lock on/off feature.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your DEMA One dispenser.

- **After Each Use:** Flush the dispenser with clean water to remove any chemical residue. This helps prevent chemical buildup and clogging.
- **Regular Cleaning:** Periodically inspect the chemical suction straw and metering tip for any blockages or wear. Clean them as needed with warm, soapy water.

- Storage:** Store the dispenser in a clean, dry place away from extreme temperatures. Disconnect it from the water supply and chemical container when not in use for extended periods.
- Inspection:** Routinely check all connections and hoses for signs of wear, cracks, or leaks. Replace any damaged components immediately.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No chemical dispensed or weak dilution.	Chemical container empty. Suction straw clogged or not fully submerged. Metering tip clogged or incorrect size. Insufficient water pressure. Air leak in suction line.	Refill chemical container. Clean suction straw; ensure it reaches the bottom of the container. Clean or replace metering tip; verify correct tip for desired dilution. Check water supply; ensure pressure is within 30-70 psi. Consider a pressure regulator if too high. Tighten all connections.
Water leaks from connections.	Loose connections. Damaged O-rings or seals. Excessive water pressure.	Tighten all hose and container connections. Inspect and replace any worn or damaged O-rings/seals. Install a pressure regulator if water pressure exceeds 70 psi.
Dispenser not activating.	No water supply. Thumb switch malfunction.	Ensure water supply is turned on and connected. Contact DEMA customer support if switch is unresponsive.

SPECIFICATIONS

Model Number	DM1DGAP.1AMZ
Product Dimensions	10.5 x 1.75 x 4.25 inches
Weight	1.1 Pounds
Material	Plastic
Recommended Water Pressure	30-70 psi
Flow Rate (Mop Buckets/Auto-Scrubbers)	4 GPM (gallons per minute)
Flow Rate (Spray Bottles)	1 GPM (gallon per minute)
Dilution Range	1:3 to 1:296 (depending on flow rate and chemical viscosity)
Container Compatibility	Most 1/2 gallon and 1 gallon chemical containers with 38mm neck
Manufacturer	DEMA Engineering Company

WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact DEMA Engineering Company directly. Refer to the contact information provided with your product packaging or visit the official DEMA

website.

Always ensure you have your product model number (DM1DGAP.1AMZ) and purchase details available when contacting support.

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Related Documents - DM1DGAP.1AMZ

	<p>DEMA Pinnacle Warewash Control Series: Installation, Operation, and Specifications</p> <p>Comprehensive guide for the DEMA Pinnacle Warewash Control Series, covering installation, operational requirements, wiring, programming, parts lists, and warranty information for commercial dishwashing systems.</p>
	<p>86M Aurora Multi-Machine: Install & Operations Manual DEMA</p> <p>Comprehensive installation and operations manual for the DEMA 86M Aurora Multi-Machine, detailing setup, programming, troubleshooting, parts, and warranty information for laundry applications.</p>
	<p>DEMA 80-77-6 Probeless Detergent Control DEMAMaster: Setup and Operation Guide</p> <p>Detailed instructions for setting up and operating the DEMA 80-77-6 Probeless Detergent Control Board for commercial dish machines. Covers DIP switch configurations, calibration procedures, operation, wiring, and warranty information.</p>
	<p>Dema 831 Laundry Master Installation Instructions</p> <p>Comprehensive installation guide for the Dema 831 Laundry Master, detailing system overview, electrical and tubing connections, programming, operation, testing, and replacement parts.</p>
	<p>DEMA 633AG-1 & 633AG-4 Blend Center Installation Instructions</p> <p>Comprehensive installation guide for DEMA 633AG-1 and 633AG-4 Blend Centers, detailing setup, operation, and servicing for chemical proportioning systems.</p>



[DEMA Aurora Plus Laundry Chemical Delivery System - Installation and Specifications](#)

Comprehensive guide to the DEMA Aurora Plus, a commercial laundry chemical delivery system. Features include Bluetooth programming, peristaltic pumps, and detailed installation instructions.