

Description

The 3M™ Flow Control System dilutes chemicals from 3M chemical concentrate products. It is a closed loop system that holds up to four chemical products and can dispense into spray bottle or mop bucket apparatuses.

Package Contents

- 3M™ Flow Control Dispenser
- Bucket fill hose
- Bottle fill hose
- Key set
- Screw and anchor kit
- Instruction sheet
- Mounting template

Water Supply Requirements

	Minimum	Maximum
Water Pressure	20 psi (1.38 bar)	90 psi (6.21 bar)
Water Temperature	40°F (4.4°C)	140°F (60°C)

Installation

NOTE

Refer to the [Product Shelf Life Information](#) document for a list of approved chemicals for use with this dispenser.

1. Use the mounting template found with the instruction sheet to mark all four anchor locations on the wall where the dispenser will hang. Be careful to select a wall location with enough clearance and support to safely mount the dispenser.
 - Use a level with the template to ensure the dispenser will be level on the wall.
2. Drill holes for the anchors at the spots marked in Step 1.
3. Install the supplied anchors into the holes.
4. Install two of the supplied screws in the top holes, and hang the dispenser from them.
5. Install the other two supplied screws through the bottom dispenser holes into the anchors. Tighten all four screws against the dispenser to ensure a secure fit.

NOTE

Consult building maintenance personnel to ensure the appropriate fastener is used for the wall material.

6. Soften the dispenser end of the hoses (flat end) by soaking them in warm water for 30 seconds.
7. Slide the softened tube over the barb outlet on the bottom of the dispenser.
 - Facing the front of the unit, attach the bottle fill hose barb on the left, and the bucket fill tube hose on the right.
8. Remove the seal liner from the chemical bottles to expose the bottle insert. Do NOT remove the bottle insert. Doing so will make the bottle inoperable.
9. Open the cabinet and place all four chemical bottles in the compartments and securely connect the connector caps to the tops of the bottles.
10. Close the door and lock it. Secure the keys in a pre-assigned location.
11. Connect the factory plumbed water hose to your water source. Be sure to follow all applicable plumbing codes.

Operation

Turning On the Water Supply to the Dispenser

- Connect the water supply hose to the 3M™ Flow Control Chemical Management System and fully tighten the hose to the water supply outlet.
- Slowly turn on the water supply valve until the dispenser is fully pressurized.
 - Turning on the water supply quickly may damage the dispenser and accidentally activate the water valve.
- Ensure the dispenser's water source is off and the dispensing lines are not pressurized (full of water) when the system is not in use in order to prevent accidental activation.

NOTE

The 3M™ Flow Control Chemical Management System is a cold-water dispenser. Using hot water with the dispenser may soften the hose and cause fittings to loosen, which may cause leaks.

Chemical Selector Dial

- Turn the chemical selector dial (upper dial) to the desired chemical position, as indicated by the directional arrows and the chemical container sight windows. When the dial points to the desired chemical position, you are ready to dispense chemical.
- For rinse water, point the dial straight down at the water symbol.
- Rinse water is NOT safe for consumption; do NOT drink it.
- Do NOT turn the dial while dispensing chemicals.

Bucket Fill Activation

1. Turn the dispensing selector dial (lower dial) to the right so the arrow points at the bucket icon and the "ON" text. Diluted chemicals will start dispensing almost immediately.
 - The bucket or pail must always be in place prior to dispensing chemicals.
2. Shut off the dispenser by turning the dispensing selector dial to the center so the arrow points down at the "OFF" text.
 - Allow any remaining chemicals to drain out of the bucket fill hose.

Bottle Fill Activation

1. Place the bottle fill tube as far inside an empty bottle as possible. This helps minimize foaming.
2. Turn the dispensing selector dial to the left so the arrow points at the sprayer icon and the "ON" text. Diluted chemicals will start dispensing almost immediately.
3. Shut off the dispenser by turning the dispensing selector dial to the center so the arrow points down at the "OFF" text.
4. Allow any remaining chemicals to drain out of the bottle fill hose.

Changing Chemical Bottles

1. Unlock and open the dispenser.
2. Unscrew the empty chemical bottle and discard it according to local, state, regional, and national regulations.
3. Open a new bottle by unscrewing the shipping cap and removing the seal liner.
 - Place the new bottle into the dispenser while securely screwing on the connector cap.

Priming Chemical Tubes

NOTE

Follow this procedure only at initial set-up and after changing chemical bottles.

1. Open the dispenser door so you can see the four tubes.
2. Turn the selector knob to the appropriate chemical.
3. Position the long hose so it flows to the drain.
4. Turn the dispense knob to the right to dispense solution through the long hose.
5. Once a tube is completely filled with chemical, the tube is primed and ready to dispense.
6. Repeat Steps 1 through 5 for all the other three chemical tubes at initial setup, or as needed for individual tubes when changing chemical bottles.

NOTE

Do NOT leave the dispenser unattended while in use.

NOTE

The dispensing selector dial will turn with slightly more resistance when going from bucket to bottle and vice versa. This is normal.

Troubleshooting Guide

Symptom	Probable Cause(s)	Possible Remedy
The dispenser is failing to draw chemical properly.	<ul style="list-style-type: none"> • Insufficient water supply pressure • Connector cap has chemical build-up • The outlet tubing might be pinched closed • The chemical metering tip is clogged with dried chemical. • The tube(s) are not connected tightly to the dispenser or connector cap. 	<ul style="list-style-type: none"> • Increase the pressure to a minimum of 20 PSI. Soak the cap in hot water to clean it. • Straighten out the tubing to remove the restriction. • Install a new chemical bottle. • Ensure the tube(s) are securely pushed over the barbs and are not damaged.
The "Air Gap" backflow prevention mechanism is dripping or spraying a mist.	<ul style="list-style-type: none"> • Mineral deposits have accumulated on the Air Gap nozzle. 	<ul style="list-style-type: none"> • Contact your 3M sales rep.
The water valve is not shutting off completely.	<ul style="list-style-type: none"> • There is debris caught between the selector valve activation plate and the selector valve plunger pin. • There is debris in the water valve diaphragm. 	<ul style="list-style-type: none"> • Clean the selector plate and plunger pin. • Contact your 3M sales rep.
The water valve is leaking.	<ul style="list-style-type: none"> • The barbed nut is too loose. 	<ul style="list-style-type: none"> • Shut the water supply off, then hand-tighten the barbed nut. Do NOT over tighten with a tool.
The selector valve is not selecting the correct chemical.	<ul style="list-style-type: none"> • The selector valve detents have worn out. • The O-rings in selector valve need attention. 	<ul style="list-style-type: none"> • Contact your 3M sales rep.
The selector valve is leaking.	<ul style="list-style-type: none"> • The screws are too loose on the selector assembly. • The internal seals need attention. 	<ul style="list-style-type: none"> • Contact your 3M sales rep.

Health and Safety

Tools and Equipment Usage

When using any equipment, always follow the manufacturer's instructions for safe operation.

Chemicals

When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety, and environmental information.

[Follow this link to obtain SDS sheets for 3M products.](#)

[Follow this link to obtain information about substances of very high concern \(SVHC\) for EU products.](#)

NOTE

Dispenser installation must be conducted in accordance with state and local plumbing codes. These codes may require additional or special backflow prevention devices or unique installation methods. Users are responsible for plumbing code compliance, including compliance with any changes made to codes after installation.

Warranty Information

Technical Information

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Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment, reviewing all applicable regulations and standards, and reviewing the product label and use instructions. Failure to properly evaluate, select, and use a 3M product in accordance with instructions or to meet all applicable safety regulations may result in injury, sickness, death, and/or harm to property.

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Commercial Branding and Transportation

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