Technical Data

3M™ Flow Control System

Description

3M™ Flow Control System dilutes chemicals from 3M chemical concentrate products. It is a closed loop system that holds up to 4 chemical products and can dispense into a spray bottle or a mop bucket apparatus.

Safety Information

CAUTION: Use appropriate Personal Protective Equipment (PPE). Refer to applicable Safety Data Sheet (SDS) for the 3M Chemical Concentrate and Ready-To-Use solutions being used for additional information and recommendations.

NOTE: Dispenser installation must be made in accordance with local plumbing codes. Local and state plumbing codes may require additional or special backflow prevention devices or unique methods of installation. Check local plumbing codes before installation. User shall be responsible for plumbing code compliance, including compliance with any changes made to codes after installation.

Package Contents

- Dispenser
- Bucket Fill Tube
- Bottle Fill Tube
- Key Set
- Screw and Anchor Kit
- Instruction Sheet and Mounting Template

Water Supply Requirements

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Maximum</th>
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<tbody>
<tr>
<td>Water pressure</td>
<td>20 psi</td>
<td>90 psi</td>
</tr>
<tr>
<td>(1.38 bar)</td>
<td>(5.52 bar)</td>
<td></td>
</tr>
<tr>
<td>Water temperature</td>
<td>N/A</td>
<td>140°F (60°C)</td>
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</table>

Installation

1. Using the template found with instruction sheet, 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 dispenser.
   - For accuracy, use a level with the template to ensure the dispenser will be level on the wall.
2. Install all four supplied anchors into pre-drilled hole locations from step 1. Using supplied screws, install top two screws and hang dispenser from them. Install bottom two screws through dispenser holes into the anchors. Tighten screws against dispenser to assure a secure fit.
   - NOTE: Consult your building maintenance personnel to ensure the appropriate fastener is used for the wall material.
3. Remove bottle and bucket fill tubing out of dispenser packaging. With warm water ready, soak the dispenser end of the tubing (flat end) in the water for 30 seconds to soften the tube.
4. With tube softened, slide it up over the barb outlet on the bottom of the dispenser.
   - Facing the front of the unit, bottle fill tube barb is on the left and bucket fill tube barb is on the right.
5. With cabinet open, position all four chemical bottles into each compartment and securely connect the connector caps to top of bottles.
   - Remove the seal liner from the bottle to expose the bottle insert for connecting to the connector cap.
   - Do not remove the bottle insert. Doing this will make the bottle inoperable.
6. Close door and lock. Secure key in pre-assigned location.
7. Connect the factory plumbed water hose to your water source. Be sure to follow all applicable plumbing codes.

Operation

- Turning on water supply to dispenser – with water supply hose connected and fully tightened to water supply outlet, slowly turn on water supply valve until unit is fully pressurized.
- Turning on water supply quickly will potentially damage internal components of dispenser and could cause accidental activation of water valve.
- NOTE: The 3M™ Flow Control System is intended to be a cold-water dispenser. The use of hot water with the dispenser may soften the hose and cause fittings to loosen, which may cause leaks.
Troubleshooting Guide

### Symptom: Proportioner fails to draw chemical properly

- Insufficient water supply pressure.
- Connector cap has chemical build-up.
- The outlet tubing might be pinched closed.
- Chemical metering tip clogged with dried chemical.
- Tube(s) not connected tightly to proportioner or connector cap.

**Possible Remedy**: 20 PSI is the minimum allowable pressure. Soak in hot water to clean. Straighten out the tubing to remove the restriction. Install new chemical bottle. Ensure tube(s) are pushed over barbs securely and not damaged.

- **Contact sales rep.**

### Symptom: "Air Gap" Proportioner is dripping or spraying a mist

- Mineral deposits are located on Air Gap nozzle.

**Possible Remedy**: Contact sales rep.

### Symptom: Water valve is not shutting off completely.

- There is debris caught between the Diverter valve activation plate and the Diverter valve plunger pin. Debris is in the water valve diaphragm.

**Possible Remedy**: Clean the Diverter plate and plunger pin. Contact sales rep.

### Symptom: Water valve is leaking

- Barbed nut is too loose.

**Possible Remedy**: Shut water supply off first. Hand-tighten the barbed nut. Do not over tighten with tool.

### Symptom: Selector valve is not selecting the correct chemical

- Selector valve detents have worn out.
- O-Rings in selector valve need attention.

**Possible Remedy**: Contact sales rep.

### Symptom: Diverter valve is leaking

- Screws are too loose on the Diverter assembly.
- Internal seals need attention.

**Possible Remedy**: Contact sales rep.
Important Notice to User

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