

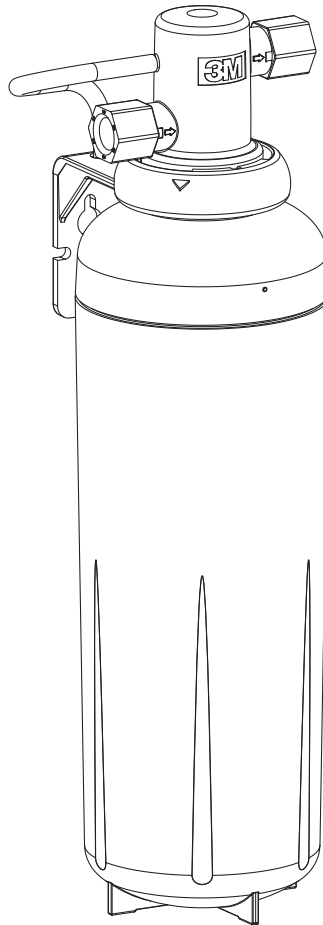
# 3M

## *Aqua-Pure™*

### Installation and Operating Instructions For

## 3MFF100

## Full Flow Drinking Water System



System tested and Certified by NSF International against NSF/ANSI Standard 42 and 53 and CSA B483.1 for the reduction of the claims specified on the Performance Data Sheet.

**Installer: Please leave manual with homeowner.  
Homeowner: Please retain for operation and  
future maintenance instructions.**



Register your product at  
[www.aquapure.com/registermyproduct](http://www.aquapure.com/registermyproduct)  
or mail in the product registration card  
included in this package





# SAFETY INFORMATION

Read, understand, and follow all safety information contained in these instructions prior to installation and use of this 3M™ Aqua-Pure™ Full Flow Drinking Water System Model 3MFF100. Retain these instructions for future reference.

## Intended use:

The 3M™ Aqua-Pure™ 3MFF100 Full Flow Drinking Water System is intended for use in filtering potable water in homes and has not been evaluated for other uses. The product is installed at the point of use and must be installed as specified in the installation instruction by a qualified professional.

EXPLANATION OF SIGNAL WORD CONSEQUENCES	
 <b>WARNING</b>	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury and/or property damage.
<b>NOTICE</b>	Indicates a potentially hazardous situation, which, if not avoided, may result in property damage.

 <b>WARNING</b>
<p><b>Read entire manual. Failure to follow all guides and rules could cause personal injury or property damage.</b></p> <ul style="list-style-type: none"><li>• Check with your local public works department for plumbing codes. You must follow their guidelines as you install the Water Filtration system.</li><li>• Your Water Filtration system will withstand up to 125 pounds per square inch (psi) water pressure. If your house water supply pressure is higher than 80 psi, install a pressure reducing valve before installing the Water Filtration system.</li></ul>
<p><b>To reduce the risk associated with choking:</b></p> <ul style="list-style-type: none"><li>• DO NOT allow children under 3 years of age to have access to small parts during the installation of this product.</li></ul>
<p><b>To reduce the risk associated with ingestion of contaminants:</b></p> <ul style="list-style-type: none"><li>• Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts. EPA Establishment #10350-MN-007.</li></ul>
<p><b>To reduce the risk associated with a hazardous voltage due to an installer drilling through existing electric wiring or water pipes in the area of installation:</b></p> <ul style="list-style-type: none"><li>• Do not install near electric wiring or piping which may be in the path of a drilling tool when selecting the position to mount the filter bracket.</li></ul>

<b>NOTICE</b>
<p><b>To reduce the risk associated with property damage due to water leakage or flooding:</b></p> <ul style="list-style-type: none"><li>• Read and follow Use Instructions before installation and use of this system.</li><li>• Change the disposable filter cartridge at the recommended interval; the disposable filter cartridge MUST be replaced every 12 months or sooner.</li><li>• Failure to replace the disposable filter cartridge at recommended intervals may lead to reduced filter performance and failure of the filter, causing property damage from water leakage or flooding.</li><li>• Installation and use MUST comply with all state and local plumbing codes.</li><li>• Protect from freezing, remove filter cartridge when temperatures are expected to drop below 33° F (4.4° C).</li><li>• DO NOT install systems in areas where ambient temperatures may go above 110° F (43.3° C).</li><li>• DO NOT install on hot water supply lines. The maximum operating water temperature of this filter system is 100°F (37.8°C).</li><li>• DO NOT install if water pressure exceeds 125 psi (862 kPa). If your water pressure exceeds 80 psi (552 kPa), you must install a pressure limiting valve. Contact a plumbing professional if you are uncertain how to check your water pressure.</li><li>• DO NOT install where water hammer conditions may occur. If water hammer conditions exist you must install a water hammer arrester. Contact a plumbing professional if you are uncertain how to check for this condition.</li><li>• Where a backflow prevention device is installed on a water system, a device for controlling pressure due to thermal expansion MUST be installed. Contact a plumbing professional if you are uncertain how to select/install/maintain a thermal expansion device.</li><li>• Where a booster pump is installed on a water system, you MUST maintain and inspect the attached pressure switch regularly in accordance with the booster pump manufacturer's instructions. Contact a plumbing professional if you are uncertain how to maintain your booster pump system.</li><li>• Where a booster pump is installed on a water system, you MUST install an appropriate pressure relief valve. Pressure relief valve must be maintained and inspected every 6 months. Contact a plumbing professional if you are uncertain how select/install/maintain a pressure relief valve.</li></ul>

## NOTICE

- Where a booster pump is installed on a water system, you **MUST** install an appropriate pressure regulating valve and regulate water pressure to <80psi. Contact a plumbing professional if you are uncertain how select/install/maintain a pressure regulating valve.
- **DO NOT** install in direct sunlight or outdoors.
- **DO NOT** install near water pipes which will be in path of a drilling tool when selecting the position to mount the bracket.
- Mount filter in such a position as to prevent it from being struck by other items used in the area of installation.
- Ensure that the location and fasteners will support the weight of the system when installed and full of water.
- Ensure all tubing and fittings are secure and free of leaks.

## IMPORTANT NOTES

- Failure to follow instructions will void warranty.
- Allow a minimum of 3" (7.6 cm) clear space under filter to facilitate filter change.
- Install with the inlet and outlet ports as labeled. Make sure not to reverse connections.

## PRODUCT SPECIFICATIONS

**Flow Rate:** 2.5 gpm (9.5 lpm)

**Pressure:** 30 - 125 psi (172 - 862 kPa)

**Temperature** 40 - 100°F (4.4 - 37.8°C)

**Capacity:** 6,000 gallons (22,712 liters)

## GETTING STARTED

- **Installation requires some household tools and additional plumbing components.**

### Parts and Materials Required for 3MFF100 Undersink Installation (Included):

1. Filter Head Assembly
2. Filter

### Items Required (not included):

- Adjustable wrench
- Cordless drill
- Phillips head screwdriver
- Razor knife or tube cutter
- PTFE Tape
- Additional installation parts will be required (3/8" NPT fitting and tubing)

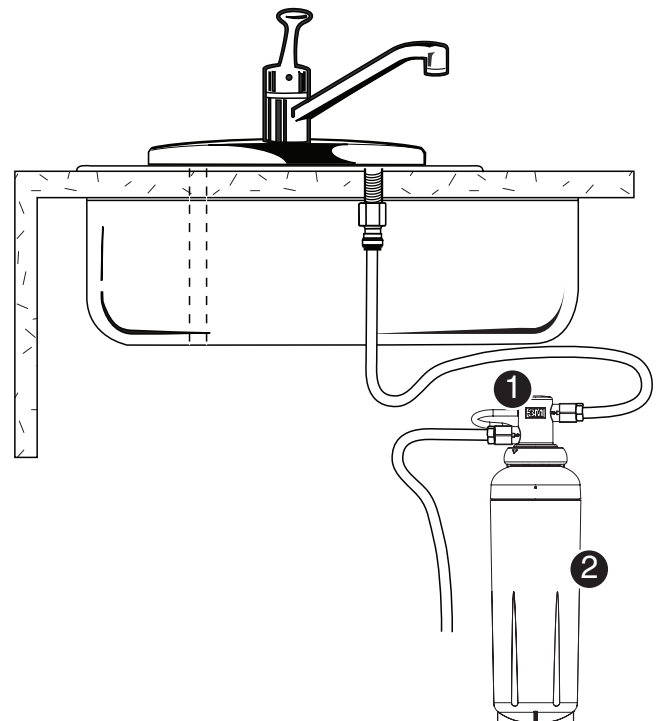


Figure 1

## IMPORTANT INSTALLATION INSTRUCTIONS

The following installation instructions described are based on copper plumbing with 3/8" compression fittings. Additional fittings may be required to connect to cold water supply.

1. Open faucet and turn off cold water supply to relieve pressure.
2. Select and mark a location under the sink that allows access for filter change. You will be connecting to the existing line with 3/8" tubing and various fittings not supplied with this filter assembly.

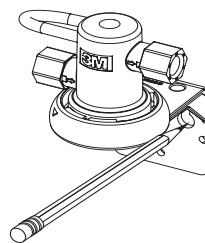


Figure 2

3. Using filter head assembly as a guide, fasten filter head assembly to wall with fasteners. (See Figure 2)

Allow 3" clearance from bottom of replacement filter for ease of removal.

4. Place a basin or a towel under the cold water supply valve. Remove the cold side riser tubing between your cold water supply valve to your primary faucet connection.
5. Install faucet adapter fitting (not included) to faucet stem. This should be a snug fit. Do not overtighten. (See Figure 3) Ensure the black gasket is inserted into the faucet adapter prior to assembly.



Figure 3

6. Install 3/8 NPT Fittings (Not Included) into filter head using PTFE Tape. Do not overtighten.



**Correct Incorrect**

Figure 4

7. Determine length of 3/8" tubing (not included) required from filter head outlet to faucet adapter by holding tubing in place ensuring it is of appropriate length. Do not kink tubing as this will impede water flow. If necessary, loop tubing around to avoid it being kinked. Cut tubing straight with a razor knife. (See Figure 4)

8. Insert 3/8" tubing from faucet adapter fitting into the filter OUTLET fitting as shown in Figure 5.

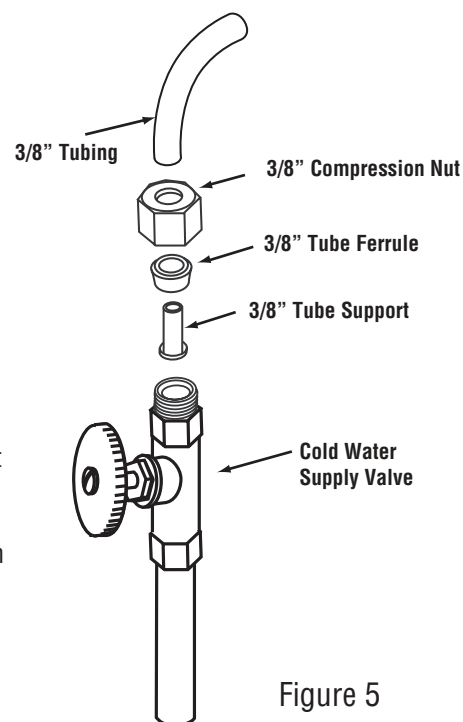


Figure 5

9. Determine length of 3/8" tubing (not included) required from filter head inlet to cold water supply valve by holding tubing in place ensuring it is of appropriate length. Do not kink tubing as this will impede water flow. If necessary, loop tubing around to avoid it being kinked. Cut tubing straight with a razor knife. (See Figure 4)

10. Using a tube ferrule, compression nut and tube support (not included), slide nut and ferrule over 3/8" tubing, insert tube support and connect to the cold water supply valve. (See Figure 5) Insert other end into filter INLET fitting as shown in Figure 1.

11. Remove sanitary protective cap from filter. Ensure both o-rings are present on the filter and are seated into grooves; moisten o-rings with water. DO NOT use any petroleum products to lubricate the o-rings.

**Note: White tube from head is a filter vent tube outlet. DO NOT remove, kink or obstruct white tube.**

### IMPORTANT NOTES

- Allow a minimum of 3" (7.6 cm) clear space under the system to facilitate filter changes.
- All components should be accessible and have a sufficient amount of clearance on all sides of the system to facilitate servicing.

12. Align lugs of filter with head assembly and insert filter into head assembly. Turn filter to the right (clockwise) until it stops (about 1/4 turn). The filter is now installed. (See Figure 6)
13. Turn on cold water supply valve and open faucet to flush air from the system. Run water for a minimum of 5 gallons (approximately 2 minutes) to flush system.
14. Close the faucet. The system is now ready for use. System is now under pressure and can be inspected for leaks. Repair any leaks as needed before continuing.

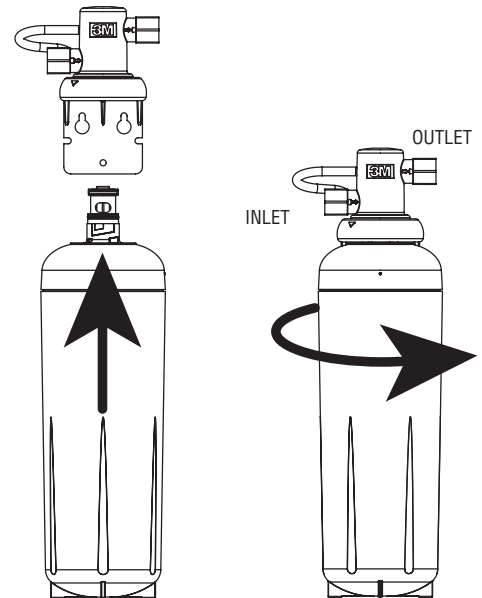


Figure 6

## FILTER REPLACEMENT INSTRUCTIONS

### NOTICE

**To reduce the risk associated with property damage due to water leakage or flooding:**

- Change the disposable filter cartridge at the recommended interval; the disposable filter cartridge **MUST** be replaced every 12 months or sooner

1. Place towel under filter to collect any residual water during replacement filter change-out.
2. Grasp filter and turn to the left (counterclockwise) until filter comes to a complete stop (water automatically turns off). Water may leak momentarily from vent tube. This is normal. Gently pull filter downward to remove.
3. Remove sanitary protective cap from new replacement filter.
4. Ensure both o-rings are present on the replacement filter and are seated into grooves; moisten o-rings with water. **DO NOT** use any petroleum products to lubricate the o-rings.
5. Insert replacement filter into filter head assembly. Turn replacement filter one quarter turn to the right (clockwise) until it stops. When fully engaged, the top surface of the filter will be flush with the bottom of the filter head assembly. (See Figure 6)
6. Open faucet and run water for a minimum of 5 gallons (approximately 2 minutes). While system is flushing, check for leaks. Repair any leaks as needed before continuing.
7. Close filter system faucet. System is now under pressure and can be inspected for leaks. Repair any leaks as needed before continuing. The system is now ready for use.

## TROUBLESHOOTING GUIDE

### **Water Leaks at Push-In Connections:**

Push tubing in as far as it will go. If leaking continues, shut off water at the cold water supply valve and remove water line by pushing in on the connector collar while pulling the tubing away. Inspect tubing for cracks and scratches. If tubing is cracked or scratched, simply cut that portion away and reinsert tubing into push-in fitting.

Make sure tubing is cut straight. If not, recut correctly. Please refer to Figure 4.

If water leaks, please verify that the o-rings are properly seated in their grooves.

### **Water Does Not Flow From The Faucet:**

Check to see if the main water line valve is open, allowing water to flow to the filter. Make sure the connections are not reversed.

### **Water Appears Cloudy or Air Comes Out of the Faucet:**

Flush 5 gallons through system before use (approximately 2 minutes).

**Product Use:**

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. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

**Warranty, Limited Remedy, and Disclaimer:**

3M warrants that this product will be free from defects in material and manufacture for the period of one (1) year from the date of purchase. No warranty is given as to the service life of any filter cartridge or membrane as it will vary with local water conditions and water consumption. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. This warranty does not cover labor. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

This warranty gives you specific legal rights, and you may have other rights which may vary from state to state, or country to country. For any warranty questions, please call 800.222.7880 or mail your request to: Warranty Claims, 3M Purification Inc., 400 Research Parkway, Meriden, CT 06450. Proof of purchase (original sales receipt) must accompany the warranty claim, along with a complete description of the Product, model number and alleged defect.

**Limitation of Liability:**

Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

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**3M Purification Inc.**  
400 Research Parkway  
Meriden, CT 06450, U.S.A.  
Tel 800.222.7880  
203.237.5541  
Fax 203.238.8701  
[www.aquapure.com](http://www.aquapure.com)  
[www.3mpurification.com](http://www.3mpurification.com)