

Installation Guide



The most compact Reverse Osmosis System available!

Reverse Osmosis Drinking Water System

Congratulations on your purchase of a PuroSmart™ System by Applied Membranes, Inc. (AMI). Your PuroSmart has been designed for effortless installation, operation and maintenance. Please read the following instructions carefully before putting your PuroSmart into operation, as we want you to enjoy all the benefits of your new product.

How the Product Works

The patented PuroSmart is the only faucet-mounted reverse osmosis (RO) system that includes carbon/sediment pre-filtration as an integral part of the filtration process. The carbon/sediment pre-filter removes sediment above 20 microns as well as chlorine. From the pre-filter, the feed water flows to the reverse osmosis membrane, which is a molecular separation process, and divides the water into two streams: the product and the concentrate streams. The product stream contains the purified drinking water, while the concentrate stream contains all of the impurities down to molecular size (sub micron) that are removed by the RO membrane. Unlike typical filtration products, these impurities are continually flushed out of the system. The PuroSmart will provide you with the finest quality drinking water, being virtually unsurpassed by any home water filtration device or bottled drinking water found on the market today.

Directions for Use

Be sure to observe the following directions when operating your PuroSmart:

- Maximum feed water pressure should not exceed 100 PSI (6.9 bar);
- For use with potable water only;
- Only use cool water (< 100° F / 38° C);
- Allow system to run for at least 4 hours before storing drinking water;
- Keep unit from freezing temperatures;
- Do not use on tap that has water heater unit directly connected to it.

Getting Started – Faucet Mounted Systems

Your package contains the following:

- PuroSmart System (with RO Membrane & Carbon/Sediment Pre-filter inside)



- Flow Restrictor Assembly



- Aerator



- 2.5-foot long section of white Tubing



- Parts Kit – Adaptor, Washer (optional metric adaptor is available)

Installation

Step 1: Remove existing aerator from the kitchen sink faucet. (Figure 1)



Step 2: Replace with aerator supplied with PuroSmart. (Figure 2)



Step 3: Install the 2.5' flexible white Tubing into the connector on the top side connection of the PuroSmart. The flexible tubing needs to be pushed into the fitting firmly. **The tubing has to be fully inserted to make sure it engages the internal o-ring (approximately 5/8" [16 mm]).** (Figure 3)

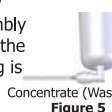


Step 4: Install the PuroSmart system by pressing the white ring down on the fitting and pushing the PuroSmart firmly onto the aerator then releasing the white ring. (Figure 4)



Step 5: Run cold water to flush out the PuroSmart before installing the Flow Restrictor Assembly. Running water for a few seconds will help prepare the carbon filter and membrane.

Step 6: Turn off the water and install the Flow Restrictor Assembly. The Flow Restrictor Assembly (elbow fitting) is pushed into the connection at the bottom of the PuroSmart. Make sure the tubing is inserted firmly into the fitting. (Figure 5)



Step 7: You are now ready to begin making water. You must run your PuroSmart for 2 hours and discard the first amount of water produced during this period. Using a storage container, you can collect water made by the PuroSmart anytime you need water.



Getting Started – Countertop Mounted Systems

Your package contains the following:

- PuroSmart System (with RO Membrane & Carbon/Sediment Pre-filter inside)



- Flow Restrictor Assembly with elbow stem fitting



- Diverter Valve Assembly with white flexible tubing



- 3-foot flexible white Tubing for product water



- Plastic stand with mounting clip and hardware



Installation

Step 1: Remove existing aerator from the kitchen sink faucet. (Figure 1 – Page 5)

Step 2: Replace with the diverter valve provided with the PuroSmart. (Figure 7)

Step 3: Install the 3-foot white tubing into the top right side connection of the PuroSmart. The flexible tubing needs to be pushed into the fitting firmly. **The tubing has to be fully inserted to make sure it engages the internal o-ring** (approximately 5/8" [16 mm]). (Figure 8)

Step 4: Mount the PuroSmart on the plastic stand provided and connect the diverter valve tubing into the connector at the top of the PuroSmart. (Figure 9)

Step 5: Leaving the system in the sink, run cold water to flush out the PuroSmart before installing the Flow Restrictor Assembly. Running water for a few seconds will help prepare the carbon filter and membrane.

Step 6: Turn off the water and install the Flow Restrictor Assembly. The Flow Restrictor Assembly (elbow fitting) is pushed firmly into the connection at the bottom of the PuroSmart. This waste water will go to drain. (Figure 10)

Step 7: You are now ready to begin making water. You must run your PuroSmart for 2 hours and discard the first amount of water produced during this period. Using a storage container, you can collect water made by the PuroSmart anytime you need water.



Figure 7



Figure 8



Figure 9

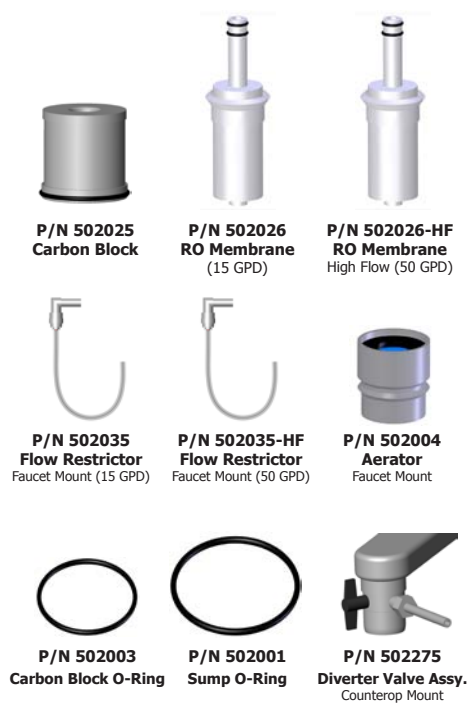


Figure 10



Page 7

Replacement Parts



P/N 502003
Carbon Block O-Ring

P/N 502001
Sump O-Ring

P/N 502275
Diverter Valve Assy.
Counter Mount

Page 8



P/N 502250
Stand Assy.
Countertop Mount

P/N 502036
Flow Restrictor
Countertop Mount (15 GPD)

P/N 502036-HF
Flow Restrictor
Countertop Mount (50 GPD)

P/N 502270
Product Tubing

P/N 500869
Thread Adaptor

P/N 500870
Metric Thread
Adaptor

P/N 502267
Sump Vessel

P/N 502210
Head Assembly
Faucet Mount

P/N 502211
Head Assembly
Countertop Mount

P/N 502273.1
Faucet Quick
Connect

P/N 502268
Feed Connector
(Countertop Mount)

P/N 500205
Feed Inlet O-Ring

Page 9

Performance Data Information

Membrane Production	
P/N 502026	15 gallons (57 liters) per day*
P/N 502026-HF	50 gallons (189 liters) per day*
Rated Membrane Life	1 year**
Carbon Pre-Filter	Chlorine, Taste, and Odor
Rated Carbon Block Life	3 months or 400 gallons (1,512 liters) of treated water

*Based on a feed pressure of 60psi (approximately 4 bar), water temperature of 77° F (25° C), and a TDS level of 500 ppm.

**The life of the RO membrane varies based on feed water quality and usage. Product water should be tested periodically to ensure membrane performance. The RO membranes should be replaced every 6 months to two years.

Membrane performance and water production rates are dependent on incoming water conditions. Your actual performance may vary. The PuroSmart RO System should only be used on municipal water supplies or those that have been determined to be microbiologically safe.

Maintenance

Your PuroSmart RO System was designed to be virtually maintenance free. Simply follow these recommendations and your PuroSmart should last for years.

- To protect the RO Membrane, the carbon block pre-filter should be replaced every 3 months or 400 gallons of treated water.
- To ensure the highest quality drinking water, replace the RO Membrane every 12 months.
- When not in use, your PuroSmart can be disconnected, placed in a plastic bag, and stored in the refrigerator.

Page 10

Warranty

This Limited Warranty covers parts and labor needed to repair any supplied item that proves to be defective in material, workmanship or factory assembly. This Limited Warranty covers the PuroSmart product for one calendar year from date of purchase. The following items are subject to exclusions: membrane, filter, o-rings, flow restrictor and all other parts or components that require regular replacement. This Limited Warranty applies only to the original purchaser.

Disclaimers

The Limited Warranty does not cover defects caused by improper use, alteration, lack of regular maintenance or as a result of fouling due to iron, hydrogen sulfide, silica, scaling from excessive hardness or membrane breakthrough due to excessive chlorine. The manufacturer does not assume responsibility for damage caused by accident, fire or acts of God.

Incidental and Consequential Damages

AMI does not assume responsibility for payment of incidental and consequential damages as a result of the failure of this unit to comply with express or implied warranties.

Implied Warranties

The implied at-law warranties shall terminate one calendar year from the date of purchase. Some states do not allow limitations on implied warranties so the above limitation may not apply.

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Page 11