

AQUAMASTER™ Limited Warranty

home water appliances

The Good Water Warehouse Inc. (GWW) warrants the Aquamaster Filtration and Reverse Osmosis system to be free from defects in materials and workmanship under normal use within the operating parameters listed below. For a period of five years from the date of purchase, GWW will repair or replace any part of the Filtration and Reverse Osmosis System with the exception of the filters, membrane and battery. The RO membrane carries a one-year warranty.

Conditions of Warranty

The above warranty shall not apply to any part of the Filtration and Reverse Osmosis System that is damaged due to neglect, misuse, alteration, accident, misapplication, physical damage, fouling, and/or scaling of the membrane (by minerals, bacterial attack and/or sediment), fire, frozen water, hot water, or an Act of God.

The Good Water Warehouse assumes no warranty liability in connection with this Filtration or Reverse Osmosis System other than as specified herein. GWW shall not be liable for consequential damages of any kind or nature due to the use of Good Water Warehouse products.

Warranty Service

Warranty service will be provided by GWW under the following conditions:

- 1) Contact your local dealer who will obtain return authorization instructions from GWW.
- 2) Ship the unit or part freight prepaid to The Good Water Warehouse for warranty evaluation or service. Unit must be returned in the original carton or packaged to prevent possible damage. Systems or parts covered under the warranty shall be repaired (or, at our option, replaced) and returned without charge.

CONDITIONS FOR OPERATION

TFC - Thin Film Composite (in Models AMR4000 & AMR4000P)

Source Water Supply - TFC	
Community/Private	Non-Chlorinated
System Pressure	30-100 psi
Temperature	4°-38° C (40°-100° F)
pH Range	3.0-11.0
Maximum Supply TDS Level	2000 mg/L
Turbidity	<1.0 Net Turbidity (NTU)

Chemical Parameters - TFC	
Hardness (CaCO ₃)	<350 mg/L (<20 gpg)
Iron (Fe)	<0.1 mg/L
Manganese (Mn)	<0.05 mg/L
Hydrogen Sulfide (H ₂ S)	0.00 mg/L
Chlorine (Cl ₂)	0.00 mg/L

CTA - Cellulose Tri-Acetate (in Model AMR3000)

Source Water Supply - CTA	
Community/Private	Chlorinated
System Pressure	30-100 psi
Temperature	4°-32° C (40°-90° F)
pH Range	4.0-8.0
Maximum Supply TDS Level	1500 mg/L
Turbidity	<1.0 Net Turbidity (NTU)

Chemical Parameters - CTA	
Hardness (CaCO ₃)	<350 mg/L (<20 gpg)
Iron (Fe)	<0.1 mg/L
Manganese (Mn)	<0.05 mg/L
Hydrogen Sulfide (H ₂ S)	0.00 mg/L
Chlorine (Cl ₂)	0.1-10.0 mg/L

AQUAMASTER™

home water appliances

Filtration & Reverse Osmosis Systems Installation and Service Guide



Models AMF2000, AMR3000, AMR4000 & AMR4000P

PLEASE READ THIS MANUAL CAREFULLY BEFORE INSTALLATION.

Please read this entire service guide prior to installation.

These Filtration and Reverse Osmosis Drinking Water Systems have been designed for quick and simple installation and maintenance. *To insure a successful installation and reliable operation carefully read this instruction manual and following the operational guidelines.* Routine maintenance is essential to the longevity and performance of the system. Filters should be changed every six to twelve months depending on the quality of the feed water supply.

Preparation

Check the following list of components to ensure that all parts are packed with your system:

- 1 - Filtration or RO System
- 1 - Faucet
- 1 - Storage Tank (RO System only)
- 1 - Installation Kit

Determine the location for the installation of the Filtration and RO system, including system, faucet, and storage tank. Avoid locations where the system might come in contact with hot water pipes or other hazards. Inspect the location for the faucet hole to prevent damaging any underlying pipes or wires.

Conditions For Operation

TFC - Thin Film Composite

(in Models AMR4000 & AMR 4000P)

Source Water Supply - TFC	
Community/Private	Non-Chlorinated
System Pressure	30-100 psi
Temperature	4°-38° C (40°-100° F)
pH Range	3.0-11.0
Maximum Supply TDS Level	2000 mg/L
Turbidity	<1.0 Net Turbidity (NTU)

Chemical Parameters - TFC	
Hardness (CaCO ₃)	<350 mg/L (<20 gpg)
Iron (Fe)	<0.1 mg/L
Manganese (Mn)	<0.05 mg/L
Hydrogen Sulfide (H ₂ S)	0.00 mg/L
Chlorine (Cl ₂)	0.00 mg/L

CTA - Cellulose Tri-Acetate

(in Model AMR3000)

Source Water Supply - CTA	
Community/Private	Chlorinated
System Pressure	30-100 psi
Temperature	4°-32° C (40°-90° F)
pH Range	4.0-8.0
Maximum Supply TDS Level	1500 mg/L
Turbidity	<1.0 Net Turbidity (NTU)

Chemical Parameters - CTA	
Hardness (CaCO ₃)	<350 mg/L (<20 gpg)
Iron (Fe)	<0.1 mg/L
Manganese (Mn)	<0.05 mg/L
Hydrogen Sulfide (H ₂ S)	0.00 mg/L
Chlorine (Cl ₂)	0.1-10.0 mg/L

STEP 1: Drilling the Faucet Hole

The product water faucet may be installed on any flat surface at least 2” in diameter. Check the underside of the location for interference.

Porcelain/Enamel Sinks

A 3/8” variable speed drill is recommended for this procedure. A spring loaded Relton style drill set is strongly recommended to prevent chipping.

The plastic sleeve supplied on the pilot drill is to be positioned on the drill bit against the drill chuck. This prevents the chuck from contacting the porcelain after the pilot hole has been completed.

Avoid high motor RPM during the initial cutting of the porcelain as this can cause chipping.

Using a carbide tipped drill bit, drill a pilot hole completely through the porcelain and the material underneath.

Place the spring loaded porcelain saw into the drill chuck. Make sure the pilot guide is inserted tightly. Insert the pilot guide into the pilot hole. Push down gently on the drill motor to apply light pressure to the porcelain surface. Start the drill motor turning as slowly as possible.

After the initial cut has started, motor speed may be gradually increased. The cut may require three to four minutes to complete. Going faster could result in excessive chipping.

Be sure a complete ring has been cut through the porcelain to the material underneath.

Place the finish hole saw into the drill chuck. Make sure the pilot guide is inserted tightly. Insert the pilot guide into the pilot hole. Begin cut using a slow speed

and light pressure until the porcelain has been penetrated to the material underneath.

Stainless Steel Sink

Make a small indent to mark the desired drilling location using a center punch. Drill a pilot hole with a 1/8” metal drill bit. Enlarge the hole using a 1” metal drill bit.

Tile Counter Top

Follow the procedures outlined in the Porcelain/Enamel Sinks section.

Faucet Installation

Once the hole has been drilled in the sink, the faucet may be located in the hole. Be sure the faucet body, faucet base, and the rubber faucet base washer are in place above the sink (See illustration on page 5). Install the star lock washer and nut, then tighten firmly while aligned faucet in the desired direction. Once the faucet is installed, screw the connector fitting provided onto the bottom of the faucet stem and tighten.

Drilling with the recommended Relton cutter

EASY AS ...

- 1  The Pilot Drill is used to drill a hole completely through to provide a guide for both the Porcelain Saw and Finish Hole Saw.
- 2  The Porcelain Saw is used to cut through the porcelain surface only. This saw cuts a smooth, chip-free, beveled groove through the porcelain to the metal base.
- 3  The Finish Hole Saw is used to cut the remaining metal through to create the hole of the desired finish size.

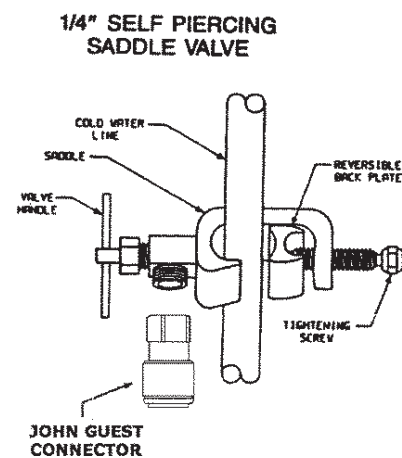
CAUTION
DO NOT USE THIS SYSTEM WHERE THE WATER IS MICROBIOLOGICALLY UNSAFE OR OF UNKNOWN QUALITY. THIS SYSTEM IS FOR USE ON POTABLE WATER ONLY. SOURCE WATER EXCEEDING CHEMICAL PARAMETERS REQUIRES PRETREATMENT.

STEP 2: Shut Off the Water

Locate the water shut-off valve for the cold water feed line that you have chosen to use for the supply. **Accidentally hooking up the system to the hot supply line will permanently damage the membrane** (See Conditions for operation). To assure you are using the cold water line turn on both the hot and cold faucets. After the water is warm, feel the pipes underneath the sink to identify the hot and cold.

Close the cold water valve. Turn on the cold water faucet only to assure that the line is completely shut off and the line is drained. If no shut off valve is located under the sink, turn off the main supply at the entry to the house.

Place the clamp over the cold water supply line. The aluminum spacer has two sides to adapt to different tubing sizes. Use the small radius for 3/8" tubing and the large radius for tubing through 5/8". Use the clamp screw to attach the saddle to the copper pipe. Tighten the brass clamp screw with a 7/16" wrench.

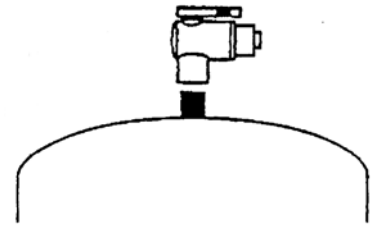


Do not over tighten the clamp. The clamp should be secure and resist a slight twisting force. Turn the saddle-tapping valve clockwise until the needle fully pierces the tubing and the valve seats. For maximum flow, back the handle out all the way. Adjust as required.

Check for Leaks

Turn on the cold water supply. Check the saddle-tapping valve for leaks. Allow the water to run for a minute to clear any possible debris from the saddle-tapping device. If flow from the faucet is reduced, remove, clean, and reinstall the faucet aerator.

STEP 3: Mounting the Tank Ball Valve



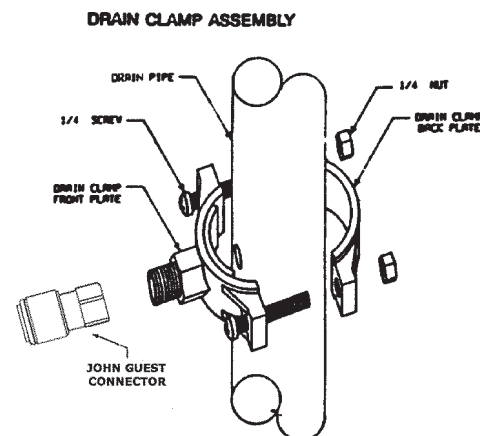
Note: Do not tamper with the air valve on the storage tank. It has been preset and screwed on with blue cap by the manufacturers.

- (1) Wrap the threads on the top of the water storage tank 3 times with plumbers (Teflon) tape only. Make sure it is tight, but not over tight.
- (2) Connect the tank ball valve assembly to the top of the water storage tank.
- (3) Connect the tube from the RO module to the water storage tank.

STEP 4: Installing the Drain Clamp (RO System only)

Select a location for the drain hole based on the design of the plumbing. Position the drain outlet saddle on the drainpipe. Allow adequate space for drilling. Tighten the bolts evenly on both sides. Avoid over tightening.

Using the opening in the drain outlet saddle as a guide, drill a 1/4" hole in the drainpipe. Clean debris from the saddle and threads.



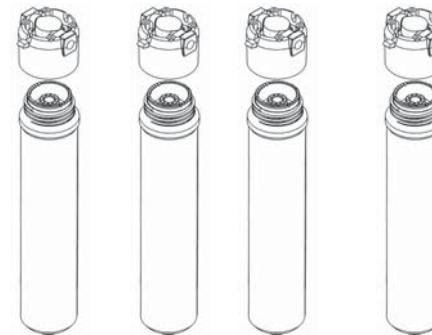
NOTE: Some states and provinces require the use of an air gap faucet. To assure compliance check your local plumbing code. Locate the drain connection away from the garbage disposal to prevent potential contamination and system fouling.

STEP 5: Mounting the Filters & Membrane

Screw the filters onto the mounting head starting from left to right in the order listed below, matching the filter label to the respective position labeled on the mounting head.

Important: Remove the black protective cap from the membrane before screwing in place.

Model	PreFilter	Carbon	Membrane	PostFilter
AMF2000	Q5605	n/a	n/a	Q5615
AMR3000	Q5633	n/a	CQ56-18TC	Q5633
AMR4000	Q5605	Q5633	TQ56-35TC	Q5633
AMR4000P	Q5605	Q5633	TQ56-35TC	Q5633



STEP 6: Tubing Connection

For RO Systems, determine the location for the storage tank. A maximum distance from tank to faucet is 15 feet. The fastest flow at the faucet can be achieved by minimizing the length of the tubing from tank to faucet.

For ease of installation all tubing is individually labeled and color coded (AMR3000, AMR4000, & AMR4000P).

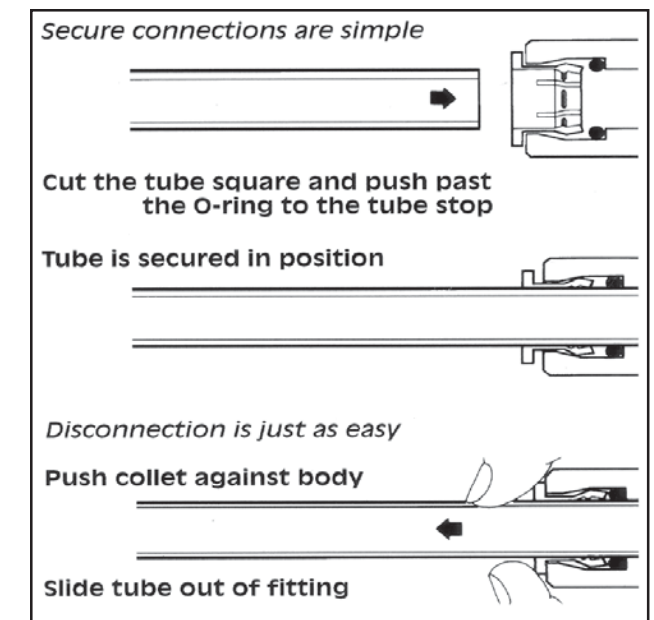
- 1/4" Red** - Connects the feed water valve to the pre-filter.
- 3/8" Blue** - Connects the RO membrane product port to the storage tank.
- 1/4" Black** - Connects the membrane brine port to the drain connector.
- 3/8" White** - Connects the postfilter to the faucet.

Note: AMF2000 only requires 3/8" Blue & 3/8" White

Fittings and Tubing

John Guest™ fittings are used throughout the system. To insure an optimal seal, tubing should be cut with the end square. An angled cut or distortion of the tubing will not provide an efficient seal and may cause leaks.

To install a tube, push it through the collet until it seats firmly. To remove a tube, push in the collet and pull out the tube.



STEP 7: Activating System for the First Time

Make sure all water supply/drain lines are secure and free from leakage.

Slowly turn the saddle valve counterclockwise until fully open. Check stem seal for leakage. If necessary tighten stem nut lightly.

Turn storage tank valve one quarter turn counterclockwise to open the valve (the handle should be in line with the tubing as it enters the connection).

Open the product water faucet and let the water flow until all the air has been expelled from the system. This will take about an hour for an RO system.

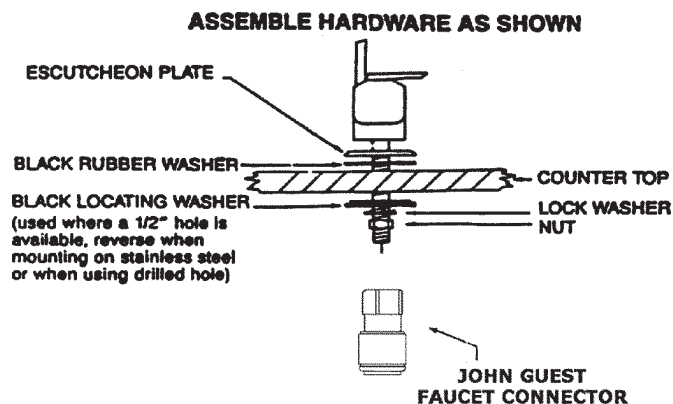
Close the product water faucet. In 30 minutes, check the connections for leaks and correct if necessary.

STEP 8: Ice Maker Hook-Up (Optional)

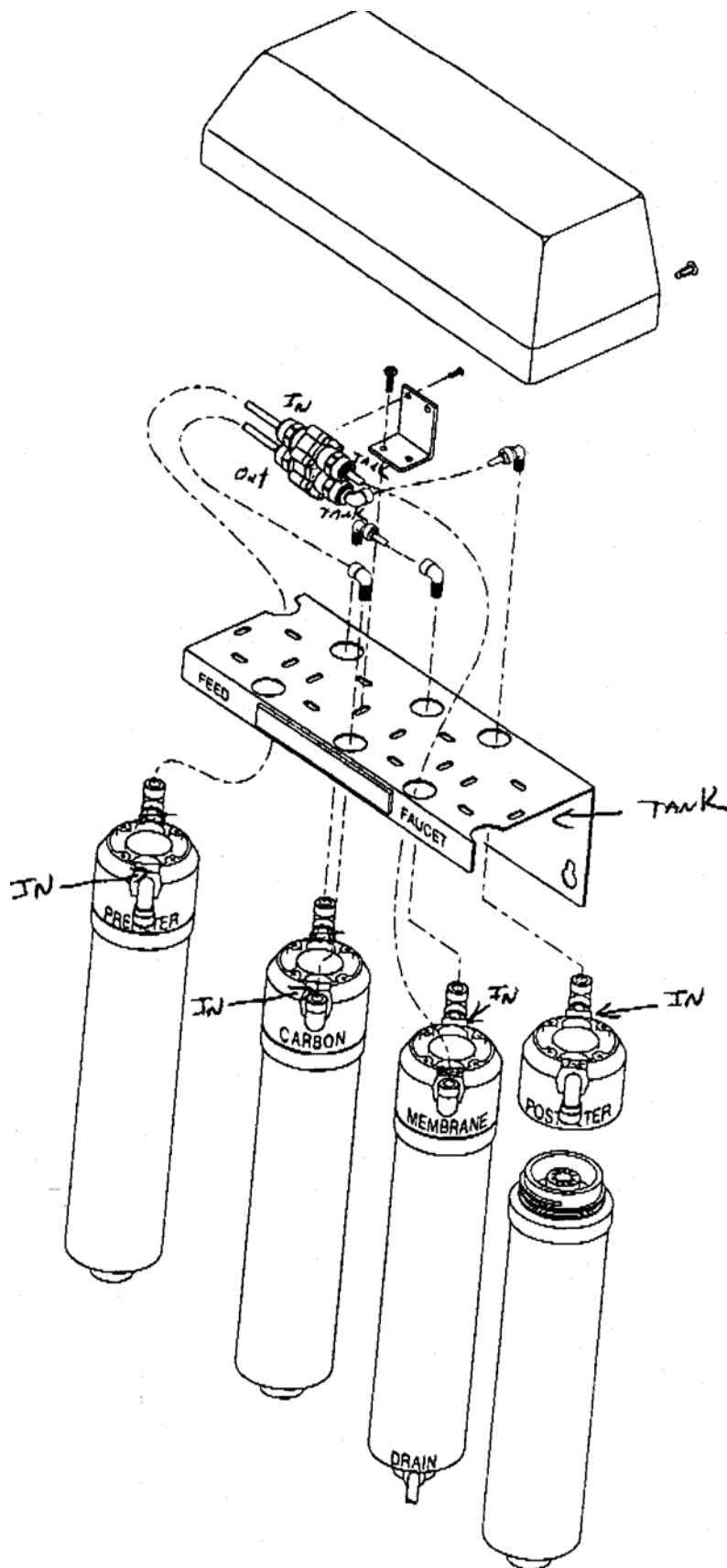
If your refrigerator is less than 25 feet to your RO unit, 1/4" polypropylene plastic tubing is recommended. If your refrigerator is greater than 25 feet from your RO unit, 3/8" tubing is recommended. *Do not use copper tubing as an objectionable ice cube taste can result.*

To begin, install a tee in the white tubing between the final filter and the faucet. Next, it is recommended to install a ball valve in the line to the ice maker. This will allow storage tank pressure to increase sufficiently for the ice maker solenoid to operate properly. Leave the ball valve in the closed position until the tank is full after start up procedure is completed.

Faucet



Aquamaster System



Do Not Use the First Two Reservoirs of Water.

Allow the reservoir to fill for 4-6 hours. Dispense this water to drain. This process removes the factory installed sanitizing solution from the entire system and sends it to the drain. Repeat this process one more time. Allow the tank to fill for 4-6 hours and dispense this water to the drain.

Filter Maintenance

Filters should be changed every six to twelve months depending on the quality of the feed water supply.

RO System (AMR3000, AMR4000, and AMR4000P)

- 1) Open the RO faucet and let the tank drain completely. Leave the faucet open until the filter change is complete.
- 2) Remove the pre-sediment cartridge - Simply turn the pre-filter cartridge counterclockwise and remove it (Models AMR3000, AMR4000, and AMR4000P). This will automatically shut off the water supply at the RO.
- 3) Remove the pre-carbon cartridge - Simply turn the pre-filter counterclockwise and remove it (Models AMR4000, and AMR4000P).
- 4) Remove the membrane cartridge - The membrane may be reused indefinitely as long as the TDS level and other troubleshooting guidelines are met.
- 4) Remove the post-carbon cartridge - Simply turn the post-carbon cartridge counter-clockwise and remove it (Models AMR3000, AMR4000, and AMR4000P).
- 5) Install the new filters in the opposite order from removal. Note: AMR3000 has no pre-carbon cartridge.
- 6) Install the new pre-filter cartridge last. This will automatically turn on the system.
- 7) Drain the first tank of water after changing the filters before drinking. When the membrane is changed, drain the first two tanks of water before drinking.

Filtration System (AMF2000)

- 1) Shut off the water supply.
- 2) Remove the cartridges by turning counterclockwise.
- 3) Install the new filter cartridge.
- 4) Turn the water supply back on.

Troubleshooting Guide

Water has an offensive taste and/or odor	Carbon post filter is depleted	Drain storage tank and replace post filter
Water has an offensive taste and/or odor	Sediment/Carbon filters are depleted	Replace filters, clean system
Water has an offensive taste and/or odor	Membrane depleted or fouled	Drain storage tank, replace membrane, & sanitize system.
Not enough product water pressure	Storage tank air pressure charge is low	Empty storage tank and set pressure to 8 psi (55 kPa)
Not enough water	Low water pressure	If line pressure is below 30 psi add a booster pump
Not enough water	Water supply is blocked	Clear restriction, rotate valve on feed water valve
Not enough water	Storage tank is depleted	Consider an increase in tank or membrane capacity
Not enough water	Clogged pre-filter cartridge	Replace prefilter, drain tank and sanitize system
No drain water	Clogged flow restrictor	Replace membrane
No water	Water supply is turned off	Turn water on
Under sink is wet	Leak from valve, faucet or fitting	Dry everything with towels to isolate leak, identify, and fix