



## 5 Stage Mako RO/DI

# Instruction & Owners Manual

7224 Sandscove Court Suite 2  
Winter Park, FL 32792  
Phone 407-599-2123  
Fax 407-599-2124  
[www.Aquariumwaterfilters.com](http://www.Aquariumwaterfilters.com)  
[www.AquaFX.net](http://www.AquaFX.net)



Water Filtration and  
Purification  
for your Reef

877-702-2074

[www.aquariumwaterfilters.com](http://www.aquariumwaterfilters.com)

## **5 Stage Mako Ultra DI INSTALLATION INSTRUCTIONS**

Congratulations on your new 5 Stage Ultra DI water treatment system from AquaFX. We hope your system brings you and your pets many years of service and fresh clean water. There are a few basic steps we wanted to inform you about when it comes to the installation and maintenance of your water treatment system. If you should have any difficulties or questions, please do not hesitate to contact us and we will be happy to help you any way we can.

Your system was custom built to order, and it is ready to hook up to a water supply with the appropriate adapters installed. Aqua FX, Inc. pressure tests all systems prior to shipping, so your RO membrane may not be installed, if not, you simply remove it from the plastic bag and place it in the white housing that lies across the top of the unit with the brine seal (the black rubber gasket) towards the open end. The only other work you need to complete is hooking the unit up to a supply and drain line.

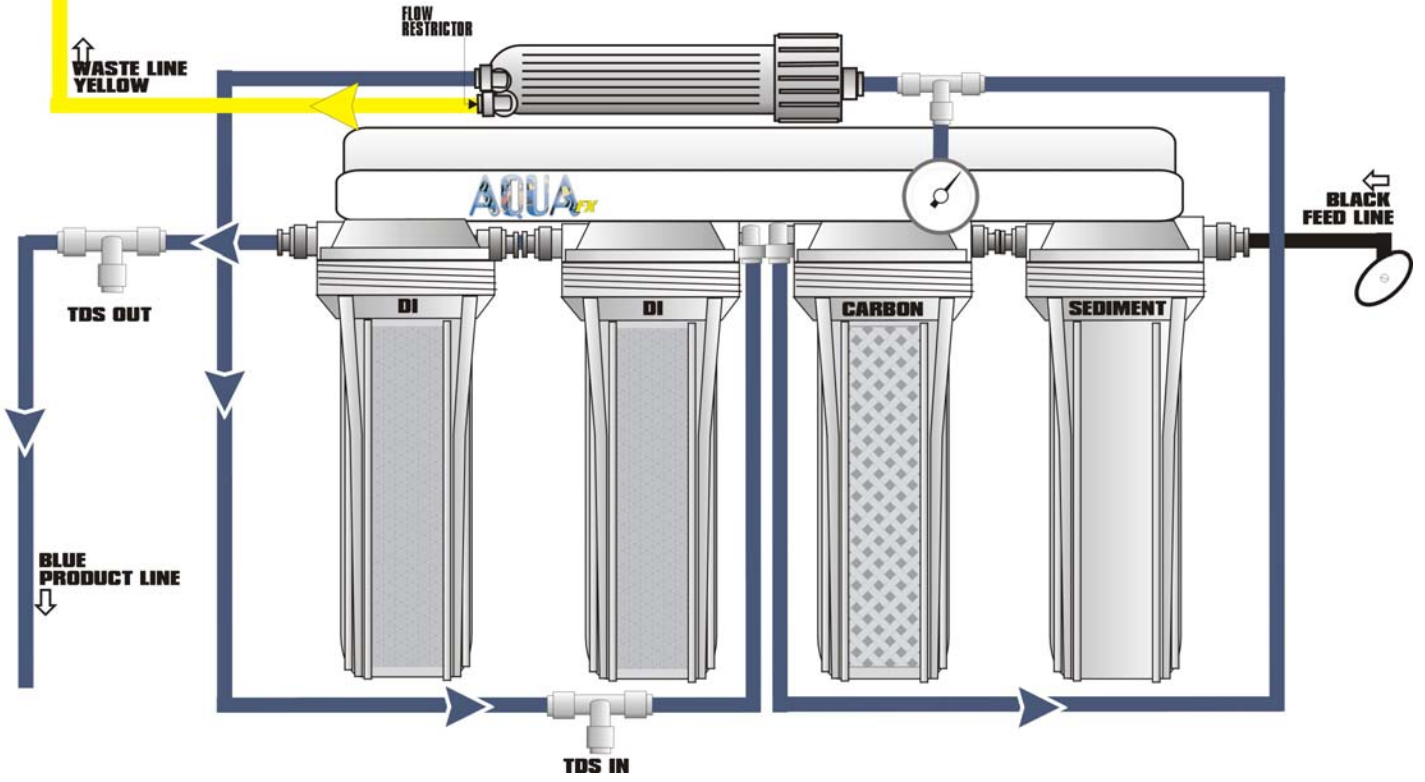
- 1) Unpack your unit completely.
- 2) Inspect for any damage or broken parts as a result of shipping.
- 3) Locate and connect the supply side of the equipment. This will be the right side as you face the system. The supply side will consist of **Black** ¼" tubing and has the connection for the type of water supply you specified.
- 4) Locate the **Yellow** drain line, and place in an appropriate area for drainage.
- 5) Locate the **blue** product water line that will provide treated water for use and slip the tubing into the left side of the system.
- 6) Once installed, allow the system to run for approximately 15 minutes to flush completely. Please check systems for leaks, parts can come lose during shipping!
- 7) You will know when to replace the reusable color changing DI when the color has completely changed(the cartridge will change colors from the bottom up). The sediment and carbon block filters (stage 1 and 2) should be changed approximately every 6 months\*<sup>1</sup>, depending on the quality of supply water.
- 8) When you notice your pressure gauge drop below the 35 PSI range you should then replace the stage 1 and 2 filters. You need at least 35 PSI supply pressure to permeate the membrane.
- 9) The only way to check your membrane for proper rejection is with a TDS Meter (Total dissolved solids)
- 10) You are now ready to provide clean, fresh water for your pets!
- 11)

These instructions cover the most common set up configurations. If you ordered different colored tubing or filter cartridge housings, you may not be able to follow these instructions completely. All AquaFX systems come with a **3 year limited warranty**. Please contact us if you have problems with your unit. Customer is responsible for filter and membrane changes and associated costs. AquaFX carries a complete line of parts and accessories for all of our systems at [www.aquariumwaterfilters.com](http://www.aquariumwaterfilters.com). Thank you for your business!



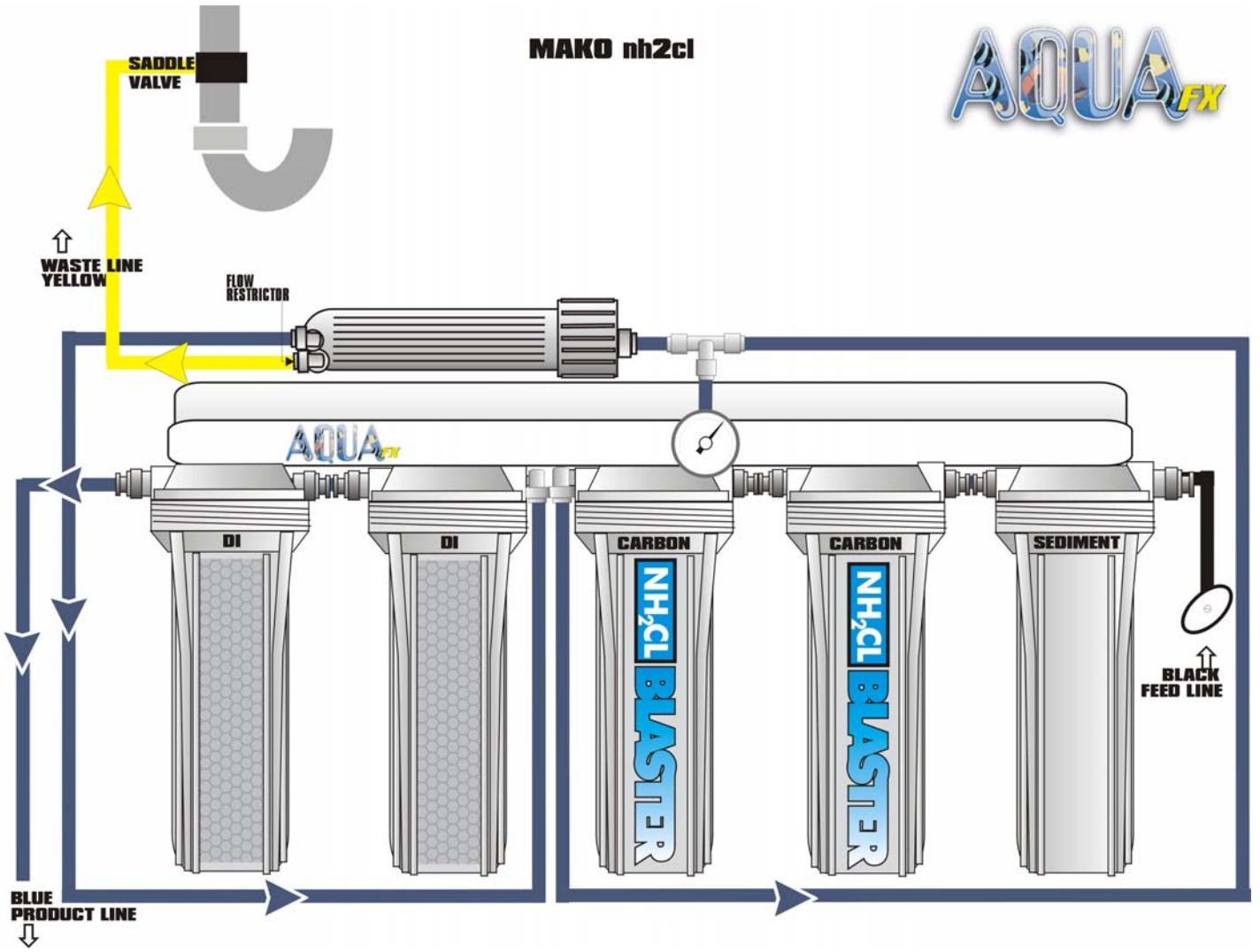
**MAKO**

**AQUA<sub>FX</sub>**



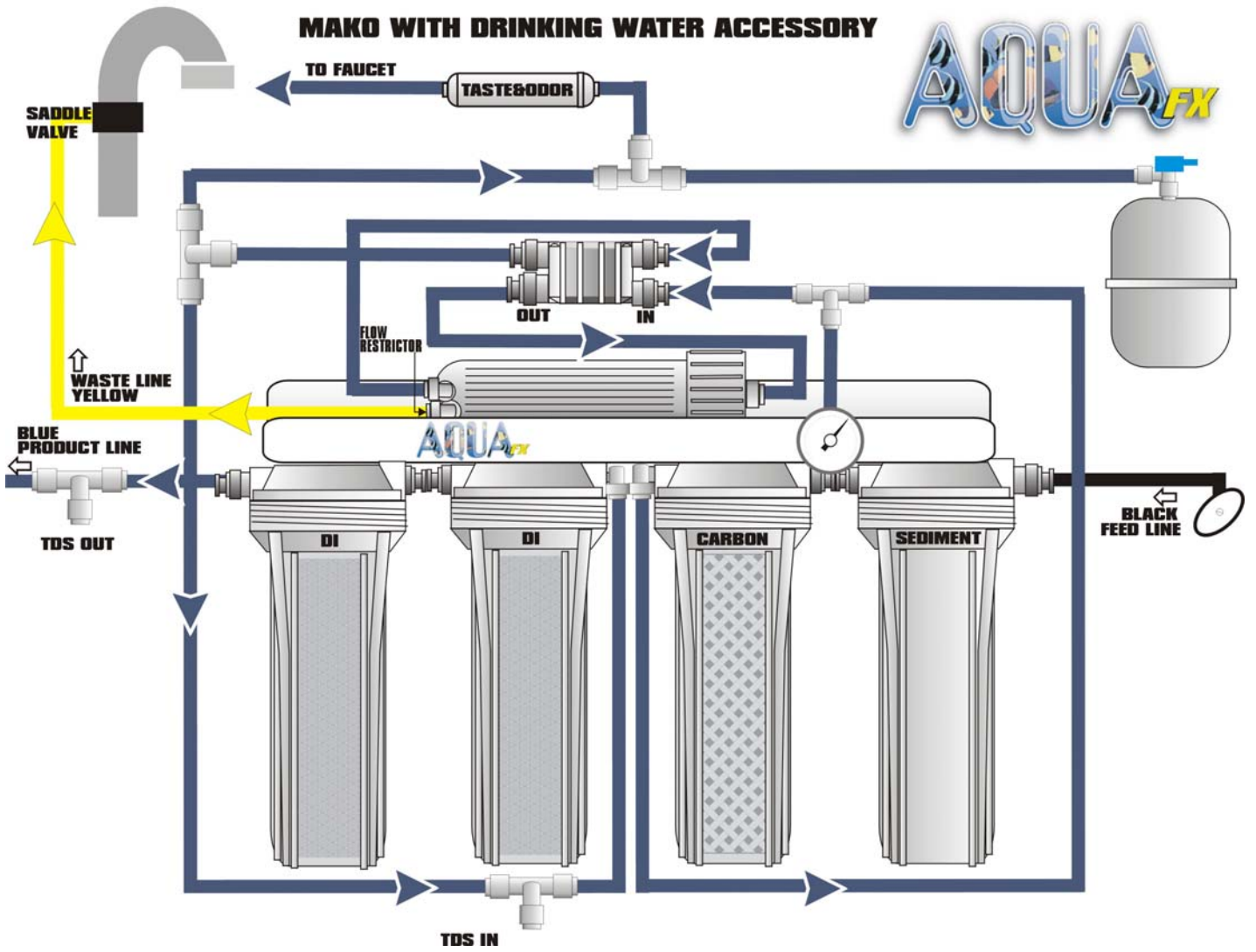
MAKO nh2cl

AQUA<sub>FX</sub>



**MAKO WITH DRINKING WATER ACCESSORY**

**AQUA FX**



# Limited 3 Year Warranty

## Aquarium & Home Water Treatment Systems

To be of exceptional quality, hereby warrants equipment to its first purchaser at retail as follows;

This warranty covers filter cartridge housings, fittings and tubing and all components. Filter replacements including sediment cartridges, carbon block cartridges, DI cartridges and Reverse Osmosis membranes are the responsibility of the consumer.

This warranty begins at the time of product registration, and must be registered within 10 days of the date of purchase.

This warranty does not require replacement of the entire unit. The defective part (s) (or the entire unit) will either be repaired or replaced with new  
Parts

This warranty is void if the equipment is not installed and operated according to instructions. It does not apply to damage caused by abuse, accident, neglect, freezing or other abnormal conditions beyond the companies control.

## Trouble Shooting Guide

### Cloudy or milky colored water:

Bad Membrane  
Replace Membrane and sanitize when below 75% rejection  
Water Supply has a high oxygen content  
System is still new

### Water does not taste or smell right

Bad Membrane                      Replace membrane when 75% rejection and sanitize  
Filters have expired.           - Replace filters.  
Should replace every 6 to 12 months.  
System needs sanitizing

### Low Water Output

Incoming water pressure is below 40 PSI,  
Increase pressure to 40 psi  
Bad check valve, Replace check valve, Open valve.  
Filters clogged                      Replace filters  
Kinked tube                      Unkink tube                      If damaged, replace tube

## Accessories

### **Drinking water kit**

Turn your RO/DI system into a drinking and cooking water purifier for your home. Better than bottled water because you control the process.

### **Handheld TDS Meters**

The only true way to check the performance of your system. Check the TDS to detect early membrane exhaustion. Checking the water after the DI cartridge will give you added peace of mind that your reef/salt water system is receiving the quality of water you need.

### **RO/DI Water Storage Tanks**

These tanks are used by many of our customers to store water or to save up sufficient water to begin a new tank. They can be equipped with automatic shutoff valves to reduce waste water.

### **Membrane Flush Kits**

Flush kits are used to extend the life of the membrane by rinsing debris and some of the scale that accumulates over time.

### **Inline Strainer**

Used for people that have high sediment, sand and large particles that may clog up their micron sediment filter prematurely. If you have sediment collecting in your sink faucet screens you could benefit from the inline strainer. They are rinseable and there is no filter to change. Not to be used with a booster pump due to pressure decrease.

### **Piggy Bank Membrane system**

Add a membrane to your existing system to approximately double your Output by recycling your waste water, who could ask for more!

### **Storage Tank(s)**

Many times storage of water is needed or just desired. 40 gallon or larger food grade tanks are available to automatically top off. We can design tanks to your needs!

### **Other Water Treatment Needs**

Aqua also provides you a complete line of whole house water treatment appliances. Whether you are on city water or private well water, Aqua has you covered.

Call with your questions or concerns.

We have a complete engineering department for all of your water Treatment needs.



# Aqua Engineering & Equipment, Inc.

## Returned Goods Policy

### Damaged Merchandise:

Aqua Engineering & Equipment, Inc. cannot be held liable for damage to or loss of a shipment by any carrier. Claims for damaged products, suspected damages, container shortages, or pilferage within the container on delivery must be noted on the delivery receipt. The carrier's claims representative should then be notified immediately.

### Returned Goods:

Aqua Engineering & Equipment, Inc. cannot assume responsibility for the error of others. Merchandise ordered incorrectly cannot be returned without written authorization. Please contact the Shipping/Receiving department for a Return Materials Authorization (RMA) number. Special /Custom orders or items cannot be returned. Material must be new and in marketable condition. We reserve the right to levy a restocking fee on all goods. We will assume all responsibility for our own errors at no charge to the customer.

Shipping & Receiving  
Phone: 407.599.2123  
Fax: 407.599.2124

### Cancellation or Order Changes:

Orders are processed as they are received. Internet and phone orders must cancel within 24 hours of order time. Any orders which require custom materials or components (i.e. custom tanks, brackets, electrical components) cannot be cancelled once special material has been ordered and/or production has begun.