

## ARSENICMASTER™ SYSTEM INSTALLATION INSTRUCTIONS

Congratulations on your purchase of the ArsenicMaster™ Water Treatment and Filtration System, an effective chemical-free, oxidation-based technology exclusively available through Vitasalus/Equinox Products. The ArsenicMaster™ System is capable of removing high levels of iron, lead, sulfur/ hydrogen sulfide (Rotten-egg odor), silt, turbidity, and other metals such as copper, arsenic, uranium and manganese.

This system utilizes unique and premium-grade ArsenicMaster™ media designed to significantly outperform other historically popular media such as Green Sand or Pyrolox®.

The ArsenicMaster™ System is designed to be used in place of traditional forms of iron treatment, and can be installed on either well or municipal water supplies. It can be used as a stand-alone unit or as the perfect companion to softeners, RO systems, carbon-based filters, etc.

No chemicals or salt are used to regen or backwash the media. The media is an all-natural proprietary blend which is completely safe for the eco-system and your septic tank/field. The media is very robust and designed not to break down, with an indefinite lifespan.

### **Prior to installation:**

Position the system where you intend to install it. Please be sure to place the ArsenicMaster™ after the pressure tank or bladder tank. The filter needs pressure for the backwash.

Before attaching the control valve, lubricate the 2 o-rings (large and small) with petroleum jelly. Tighten the control valve *hand tight only*.

**CAUTION:** *The unit must be kept upright at all times to prevent media from entering the control valve.*

### **Installation procedure:**

1. **IMPORTANT:** The ArsenicMaster™ must be flushed for 15 minutes prior to tying into your plumbing, in order to prevent media from getting into your pipes and fixtures.
2. After cutting into your supply line, run copper or PVC to the ArsenicMaster™ System. Either copper or PVC adapters may be used for connection to the IN and OUT ports of the control valve.
3. For the drain port, a Flow Restrictor is included, with an elbow and clamp. You will need to provide a ½" hose for the drain line.
4. **CONNECT THE INLET SIDE ONLY** for this first system flushing. Turn the water on gradually and run at a low volume. Do not run water at a high volume initially, since the force of the water may blow media up into the control valve, leading to problems with your backwash valves.
5. Flush the system until the water runs clear. At this point, water volume may be increased to finish the initial flushing process.
6. A 110v outlet is needed to supply power to the control valve. The control valve is pre-programmed for backwashing every three days at 2 a.m. After powering up, enter the time and day on the display module of the control valve by depressing the set button (square button) and using the UP or DOWN arrows. To change the backwashing time and schedule, continue depressing the set button until you arrive at those settings. When the setting is blinking, depress the UP or DOWN arrows to adjust values.
7. **NOW CONNECT THE OUTLET SIDE AND THE DRAIN LINE.** Run your drain line to a septic or sewer pipe.
8. Before turning on water to the house, force a backwash to cleanse and prepare media for operation. To force a backwash, depress the regen button (recycling symbol) and hold

down for 5 seconds. The factory programmed backwash process takes a total of 28 minutes, while actual rinsing and drainage takes 14 minutes. A minimum of 98 gallons will be flushed through the MetalMaster. However, the rinsing period is adjustable. *Remember to keep unit UPRIGHT at all times.*

9. Check Flow Restrictor for any media blockage from forced backwash.
10. Any questions? Call Vitasalus/Equinox Products toll-free at 1-877-284-5042 and ask for tech support.
11. Your ArsenicMaster™ Water Treatment and Filtration System is now ready for use. Enjoy!

### **Post installation:**

If iron, rotten-egg odor or rust persists, run the backwash more frequently. Increasing backwash minutes may help as well. Check for adequate flow rate or gallons per minute coming from well.

Remove or replace anode (sacrificial rod) from Water Heater if rotten-egg odor remains on the hot water side.

Ideal pH is 7.0. Low pH (below 5.0) may compromise MetalMaster performance.

If water coloration is brown or yellow coming out of ArsenicMaster™, check for tannins.

If backwash drain flow continues after backwash is complete, call technical support for further instructions.

The Dealer Manual referenced in the control valve guide is NOT available or necessary for our customers.

## PERFORMANCE DATA

For 6 GPM System—Tank Size: 8" diameter x 44" height  
(the control valve adds approximate 8" to tank heights provided)

Media Vol: 130 lbs. Service Flow Rate: 6gpm  
Backwash 30% Exp. @ 60°F: 7gpm

For 8 GPM System—Tank Size: 9" diameter x 48" height  
Media Vol: 165 lbs. Service Flow Rate: 8gpm  
Backwash 30% Exp. @ 60°F: 9gpm

For 10 GPM System—Tank Size: 10" diameter x 52" height  
Media Vol: 200 lbs. Service Flow Rate: 10gpm  
Backwash 30% Exp. @ 60°F: 12gpm

Plumbing Connection Size: Fits both ¾" and 1"

Operating Pressure: 20-150psi

Operating Temperature: 36—120°F (2—38.9°C)

Backwash 30% Exp. @ 60°F: 7gpm (for 6gpm system)

pH Range: 5.0-9.0

Life Expectancy: Virtually unlimited  
(for normal contaminant conditions)

## RE-ORDER, PARTS & ACCESSORIES

**Vitasalus/Equinox Products**  
**(Toll-Free) 1-877-284-5042**  
**www.vitasalus.com**

## WARRANTY POLICY AND LIMITATIONS

The ArsenicMaster™ Water Treatment and Filtration System is warranted to be free from defects in materials and workmanship for a period of ten (10) years. The control valve carries a 5-year warranty. There are no forms or warranty cards necessary from our customers. Warranty registration is automatic and begins on the day our customers receive their product.

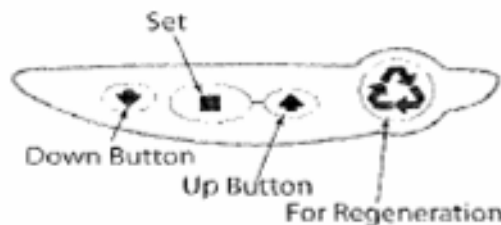
# **READ ME FIRST!!!**



This document is designed to stress the important installation techniques and/or recommendations that we have found to be most overlooked when reviewing the enclosed installation instructions. Reviewing and understanding this document will ensure a good overall installation.

## **PLEASE READ FIRST PRIOR TO INSTALLING EQUIPMENT**

- When performing the initial flush, **CONNECT THE INLET SIDE ONLY** for this first system flushing. **Turn the water on gradually and run at a low volume.** Do not run water at a high volume initially, since the force of the water may blow media up into the control valve, leading to problems with your backwash valves.
- Flush the system until the water runs clear. At this point, water volume may be increased to finish the initial flushing process.
- After outlet connections are made and before turning on water to the house, force a backwash to cleanse and prepare media for operation. To force a back-wash, depress the regeneration button (recycling symbol) and hold down for 5 seconds.
- If the regeneration button is pressed more than 1 time, multiple backwashes will occur
- If multiple backwashes occur, press the square button and up arrow simultaneously for 5 seconds to cancel the backwash



- Do not change settings other than time/day unless otherwise instructed by technician
- Unit must be installed after the pressure tank
- The flow restrictor is included in the installation package

**PLEASE DO NOT HESITATE TO CALL TECHNICAL SUPPORT WITH  
ANY QUESTIONS OR CONCERNS  
VITASALUS 877-284-5042**

**MetalMaster / ArsenicMaster / TanninMaster / Nitrate System / pH Neutralizer and Reducer**

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Flowing or dripping water at drain line after regeneration	Debris is preventing or clogging valves and/or flow restrictor and drain port	a. Remove the flow restrictor off the drain port on the back of the control valve. It will have a black elbow and hose connected to it
		b. Make sure there is no media, rust or sediment clogging up these orifices
		c. Take a shop vacuum and suction the drain port free of any media, rust or sediment buildup
		d. While doing this, check that the last 4 flaps toward the back of the cam shaft are seated properly. These are your drain valves. While vacuuming, push open each of these flaps to eliminate any debris that may prevent full closure.
Significant Pressure Loss	Media, Rust or Sediment clogging up orifices	See Above
	Inlet and Outlet Ports are not connected correctly	Check that water is flowing into the inlet port and exiting the outlet port
Reoccurring backwashes	Regeneration button was pressed more than one time during initial set up	Press the up arrow and square button simultaneously for 5 full seconds, this will cancel a backwash
Four dashes displayed -- :--	Power failure occurred	Press SET to reset the time display
Media Discharge into household appliances	Unit was not flushed thoroughly prior to installation	Connect the inlet side only, must be flushed for 15-20 minutes prior to tying into your plumbing. Flush the system until the water runs clear. At this point, water volume may be increased to finish the initial flushing process
After testing, results for heavy metals have not decreased and/or results not typical for claims made by company	See Above	See Above
	Well is not producing required gallons per minute for system backwash	Check for adequate flow rate or gallons per minute coming from well.
	Levels are too high for systems capabilities	Verify levels of elements prior to entering system
	Tannins and Iron Bacteria compromising systems performance	Check for slime, film and/or oily sheen in toilet tank. If water coloration is brown or yellow coming out of MetalMaster, check for tannins.