



Installation and Maintenance Guide

Inline Chlorinator™



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System Capabilities

The Inline Chlorinator™ is a chlorine feeder system designed for ease of use, to help disinfect and/or control iron, iron bacteria, sulfur, hydrogen sulfide, and rotten-egg odor, within well and other source water. As the source water passes through the Inline Chlorinator, the chlorine pellets are dissolved based on the simple pre-set feed rate, allowing for disinfection, oxidization and precipitation to take place.

The Inline Chlorinator is primarily used in combination with our other water treatment systems and is rarely used as a standalone system. Below is a list of some of the Vitasalus water treatment systems the Inline Chlorinator is most popularly used with (all not listed):

- Well Water Packages (#1, #2, #3, #4)
- Lake Water System Packages (#2 and #3)
- Retention Tank

Note: The Inline Chlorinator must be used with a *Retention Tank or Inline Ultraviolet (UV) System for the treatment of bacteria, ie. E. Coli, Fecal Coliform, etc., this does not apply for iron bacteria in most cases.

*The purpose of the retention tank or contact tank is to provide ample amount of contact time so the chlorine can disinfect properly.



If you feel your application may require additional treatment or equipment, please contact Vitasalus Technical Support for more information, 877-284-5042

Congratulations on your purchase of the Inline Chlorinator™ Water Treatment and Disinfection System, an effective easy to use chlorine feeder system available through Vitasalus, Inc. The Inline Chlorinator™ System is capable of oxidizing iron, manganese, sulfur/ hydrogen sulfide (Rotten-egg odor) and disinfecting against bacteria* as well as iron and sulfur reducing bacteria.

The Inline Chlorinator often compliments many water treatment systems exclusively through Vitasalus, Inc including the MetalMaster™, Lake Water Systems, Well Water Systems and Retention Tanks

Included Installation Components

- (1) Complete Inline Chlorinator with Black Lid
- (2) 1.5" PVC Tube Adapters
- (2) 1" PVC Tube Adapters
- (2) Black Tube Adapter Gaskets
- (2) Adapter Nuts
- (1) Blue Wrench



Equipment Installation

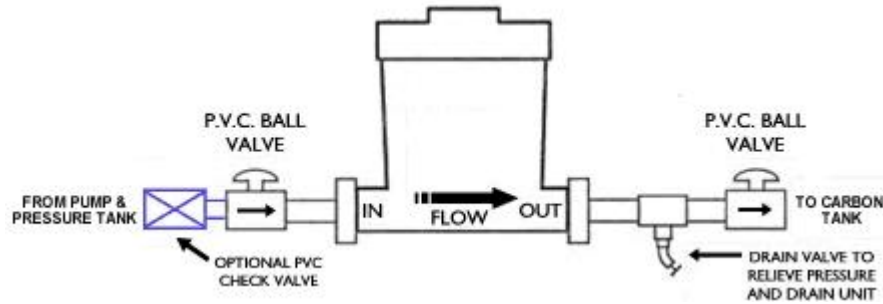
General Warning and Safety Precautions



Unit must be installed after pressure tank

Install PVC check valve after pressure tank and before feeder inlet.

It is recommend installing a shut off and draining valve as illustrated below for ease of servicing chemical feeder



DANGER: DO NOT MIX DIFFERENT TYPES OR BRANDS OF CHLORINE AN EXPLOSION CAN OCCUR!



USE CAUTION WHEN HANDLING CHLORINE:

Chlorine can bleach clothes and may burn eyes and skin. See manufacturer details for proper handling.



REMOVE CHEMICAL FROM "FEEDER" WHEN NOT BEING USED



Please check the inside center tube (image 1) is screwed in tightly to the base of the chlorinator. It may become loose in shipping, resulting in chlorine to feed into the water supply in higher doses



Image 1



Equipment Installation

Installing Inline Chlorinator

1. Insert the black tube adapter gasket to the inlet/outlet of the Inline Chlorinator (image 1)

Black Tube Adapter Gasket



Image 1

2. Glue 1" PVC tube adapter fitting into the 1.5" tube adapter fitting (image 2)



Image 2

3. Thread the PVC tube adapter nut to the chlorinator, hand tighten only, repeat on outlet side (image 3-4)



Image 3



Image 4

Equipment Installation

Filling Inline Chlorinator

Fill the Inline Chlorinator with the 2.2lb of chlorine pellets (provided with purchase) around the center stem.

Note: Do not fill the center tube with pellets



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Setting Inline Chlorinator



For most applications, the outside dial should be set to the first bold notch, unless otherwise specified from a Vitasalus technician. (see image 5) Also, if the user wants to add even more control over dosing, see page 13 of this document.

Set dial to first bold notch

Image 5

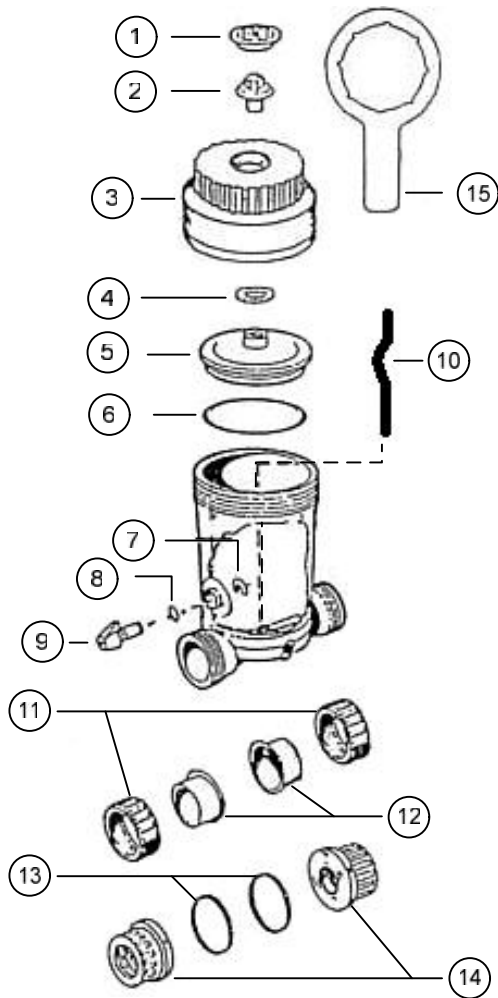
Maintenance

Refilling Procedure

1. Shut off water supply
2. Open drain valve after feeder to relieve line pressure.
3. Unscrew top with included wrench and remove center tube to drain unit. To clean the removed tube, soak in a mixture of Muriatic Acid. One part Muriatic Acid to 5 parts water. Always pour the acid into the water. ADHERE TO THE WARNINGS FOR HANDLING AND USE OF MURIATIC ACID. Tube can also be cleaned by soaking in white vinegar. If tube requires additional cleaning, soak in vinegar over-night or longer.
4. Unit Housing needs cleaning when center hole has built-up. Unscrew unions, remove housing and soak in same mixture of Muriatic Acid as tube until clean. Be sure flow arrow is in the same direction when reinstalling housing.
5. Make sure unit is completely "bone-dry" and there are no residual used chlorine pellets before adding new pellets
6. Fill with chlorine pellets (2.2lbs)
7. Thread the top back onto the chlorinator and use wrench to secure and close drain valve
8. Turn on water supply

Maintenance

Replacement Parts Description



Part# Description

- 1. Cover Cap
- 2. Cap Screw
- 3. Lid
- 4. Spacer
- 5. Inner Lid
- 6. Lid O-Ring
- 7. Lock Clip
- 8. R.O.F O-Ring
- 9. Rate of Feed Valve
- 10. Flow Tube
- 11. Union Nut (2)
- 12. 1.5" Socket Adaptor (2)
- 13. Union O-Ring (2)
- 14. 1" Socket Fitting (2)
- 15. Lid Wrench

Manufacturers Guarantee, Warranty and Return Policy

Warranty Policy and Limitations:

All Water Filtration products are warranted to be free from defects in materials and workmanship for a period of one (1) year. There are no forms or warranty cards necessary from our customers as warranty registration is automatic and begins on the day our customers receive their product.

We cannot, and will not, be responsible for a recommended solution that falls short resulting from lack of information/disclosure by the customer. Our representatives base all product recommendations on information provided by our customers; if other conditions (i.e. water, installation space, power, water pressure, etc.) exist which were not previously disclosed, then additional/other products may be required to make the overall solution successful. However, as always, we are committed to positively working with the customer to help remedy any troubled solution by providing the customer with the most effective and affordable options available.

Under no circumstances will Vitasalus/Equinox Products financially cover, or be responsible for, any service, 100% satisfaction guarantee, or warranties, that have resulted from improper application, poor handling, neglectful damage, set-up, installation, start-up procedure, and/or lack of thorough follow through of installation procedures found on or with the unit, and in any service guides, product manuals, and/or related website pages.

Return Policy:

For the return of any product you must first call to get a Return Merchandise Authorization (RMA) number. This RMA number must be written on the outside of the shipping box, or the receiving department will refuse the shipment. The RMA number is only valid for 30 days.

For returns that do not qualify for our 100% satisfaction guarantee due to improper installation, improper use, neglectful damage, unused product, and/or problems that are not due to performance issues, a restocking fee/charge of 15% will be assessed within 30 days, 30% within 60 days, and no refund/credit after 60 days unless stated otherwise for water filtration units, otherwise, NO EXCEPTIONS. After a RMA has been issued by a Vitasalus, Inc. Customer Service Representative, product must be returned freight pre-paid, in original packaging.

Re-Ordering, Replacement Parts & Accessories

Company Information

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CHEMICAL FEEDER – TROUBLE SHOOTER

SYMPTOMS	REMEDIES
<p>White Paste/Glue Build Up</p>	<ol style="list-style-type: none"> 1. Chlorinator service requires dry basin for adding pellets and center tube replacement/cleaning 2. Never expose wet chlorine to air 3. Do not remove cap during operation or until pellets are gone 4. Air entering unit during operation 5. Isolate chlorinator with shut off valves and drain port <p>NOTE: To isolate the Inline Feeder for maintenance, install a shut off valve before and after the inline feeder. Install a drain-port after the inline feeder and before the second shut off valve to allow the unit to drain properly before adding pellets. This is not necessary but strongly recommended.</p>
<p>Lid is hard or impossible to remove (No.4).</p>	<ol style="list-style-type: none"> 1. Line pressure has not been relieved 2. Unit was not previously cleaned when re-filled and inside tube is plugged. (No.8). The unit is under pressure. Be extremely careful when removing a lid under pressure. It can blow off with extreme force
<p>Low pressure or low water flow after carbon tank</p>	<ol style="list-style-type: none"> 1. Carbon fouled and needs back washing or replaced
<p>Tube appears warped or melted.</p>	<ol style="list-style-type: none"> 1. Do not mix different types or brands of chlorine. Make sure no oil or petroleum products mix with the chlorine
<p>Chlorine smell after carbon and/or Unit appears to be using chemical fast.</p>	<ol style="list-style-type: none"> 1. No carbon or carbon tank is internally bypassing or carbon fouled with oxidized iron 2. Pressure tank is water logged or pressure is low or high in the air bag. 3. Improper chemical feeder adjustment or adjustment holes are plugged and needs cleaning. (Tube No.*) 4. Improper pressure switch adjustments. There should be a minimum differential pressure of 20PSI 5. the chart for chlorine output is for a 42 gal. pressure tank. If using a smaller tank such as a 20 gal. tank, cut the chlorine output by one half. The chemical feeder will output the same amount of chemical for each pump cycle and a smaller tank is delivering less water on each pump cycle increasing the chemical concentration.
<p>High Odor and/or Unit appears not to be dispensing the proper amount of chlorine.</p>	<ol style="list-style-type: none"> 1. Unit needs chlorine or it is over filled. (Max. ¾ full) 2. Wrong chlorine. Only calcium hypochlorite tablets will dispense high amounts of chlorine. Stabilized chlorine is not approved by the FDA for potable water. 3. Pressure was released from the unit and fluid was not removed from the unit before re-pressurizing the unit. 4. Carbon tank internally bypassing. 5. Pellets placed in center tube instead of basin
<p>Odor only in hot water</p>	<ol style="list-style-type: none"> 1. Magnesium anode rod in hot water tank. Remove the rod. Clean, replace and/or remove

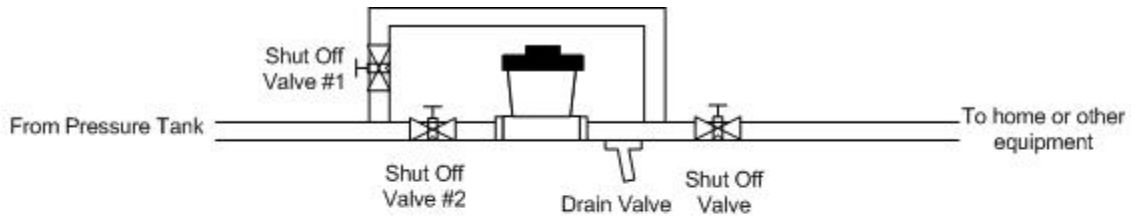
Troubleshooting

Inline Chlorinator – Blending Water Option

In some applications where the chlorine feed needs to be adjusted more accurately, in addition to the control dial, a method commonly used is a blending technique that allows the user to further adjust the amount of chlorine being fed into the water supply. The diagram below illustrates how the plumbing would be installed to achieve this.

When the installation done correctly, the user can open or close Shut Off Valve #1 and Shut Off Valve #2 to certain percentages to maintain full pressure but control how much or how little chlorine they want to go into the feeder.

This is not required for all installations but is recommended to install just in case the blending water bypass needs to be utilized



Examples:

Open Valve #1 to 50%
Open Valve #2 to 50%

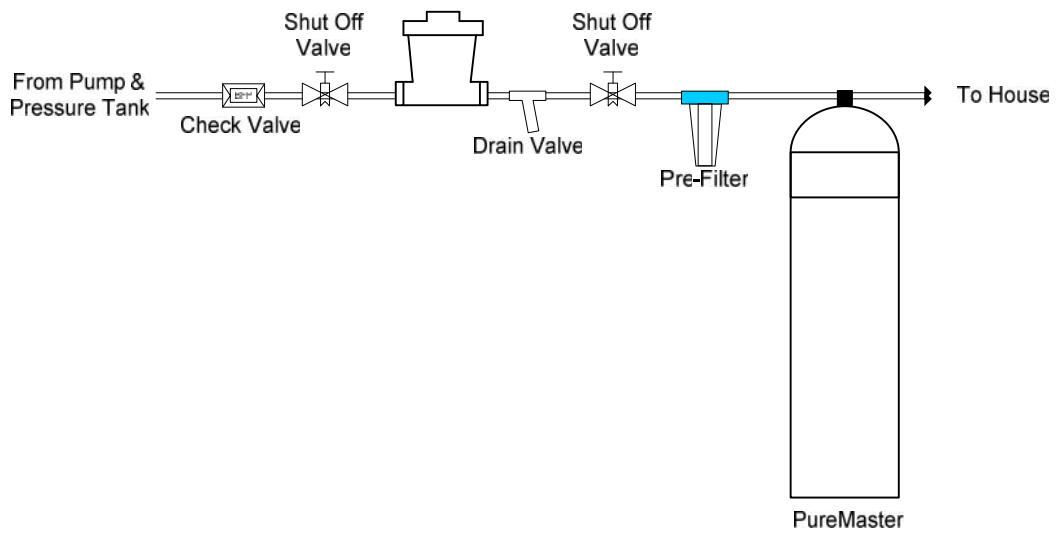
Open Valve #1 to 70%
Open Valve #2 to 30%

Open Valve #1 to 80%
Open Valve #2 to 20%

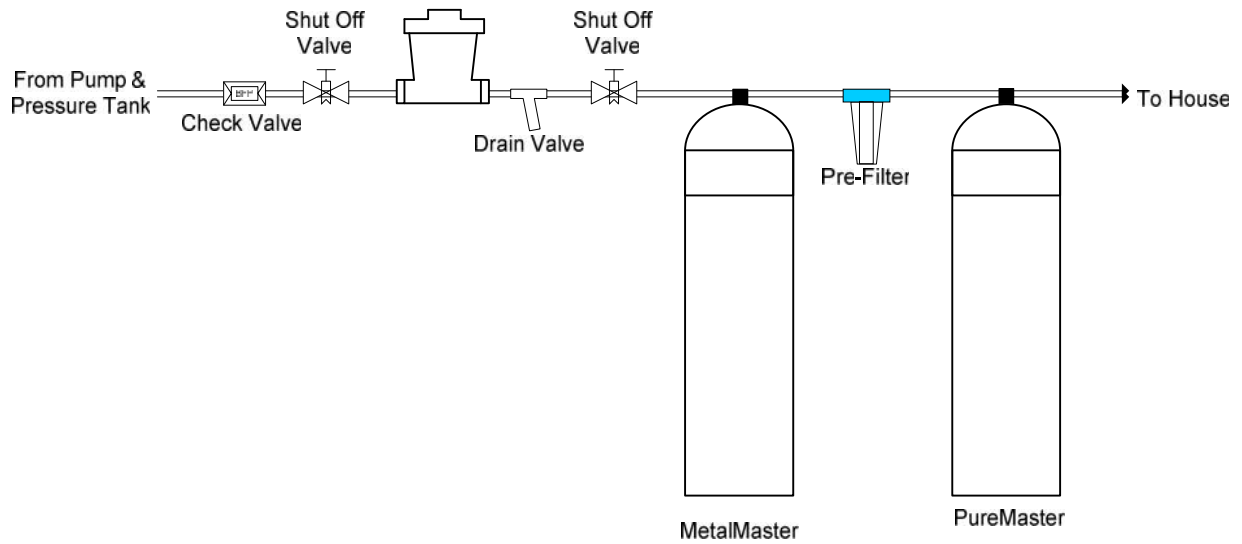
Open Valve #1 to 20%
Open Valve #2 to 80%

Example Installation Diagrams

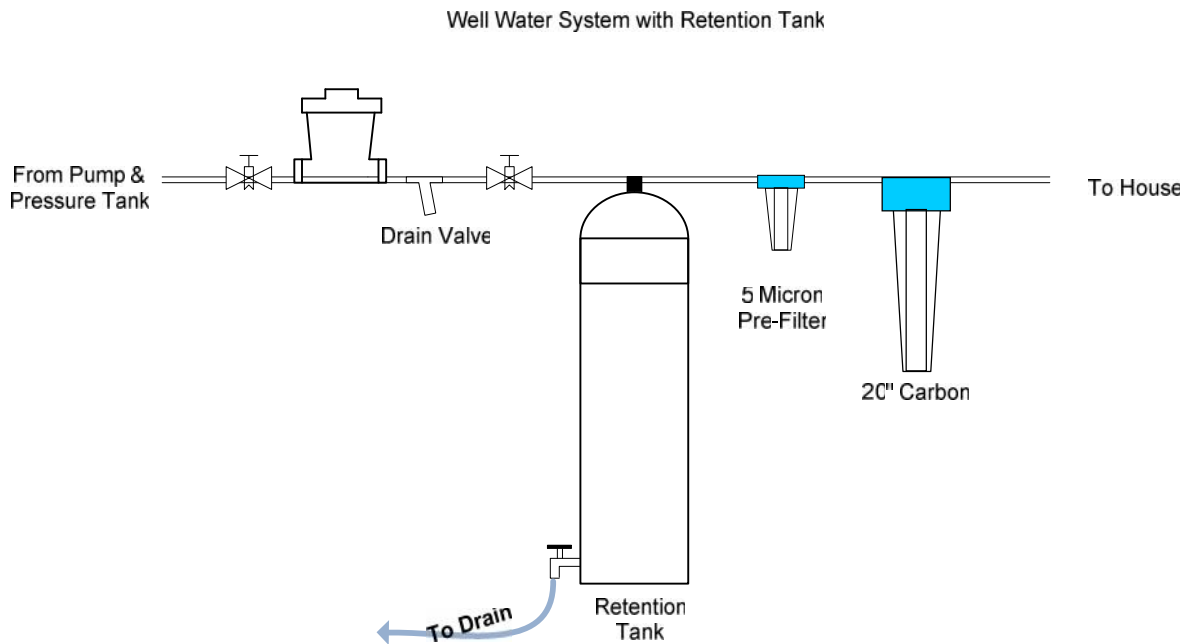
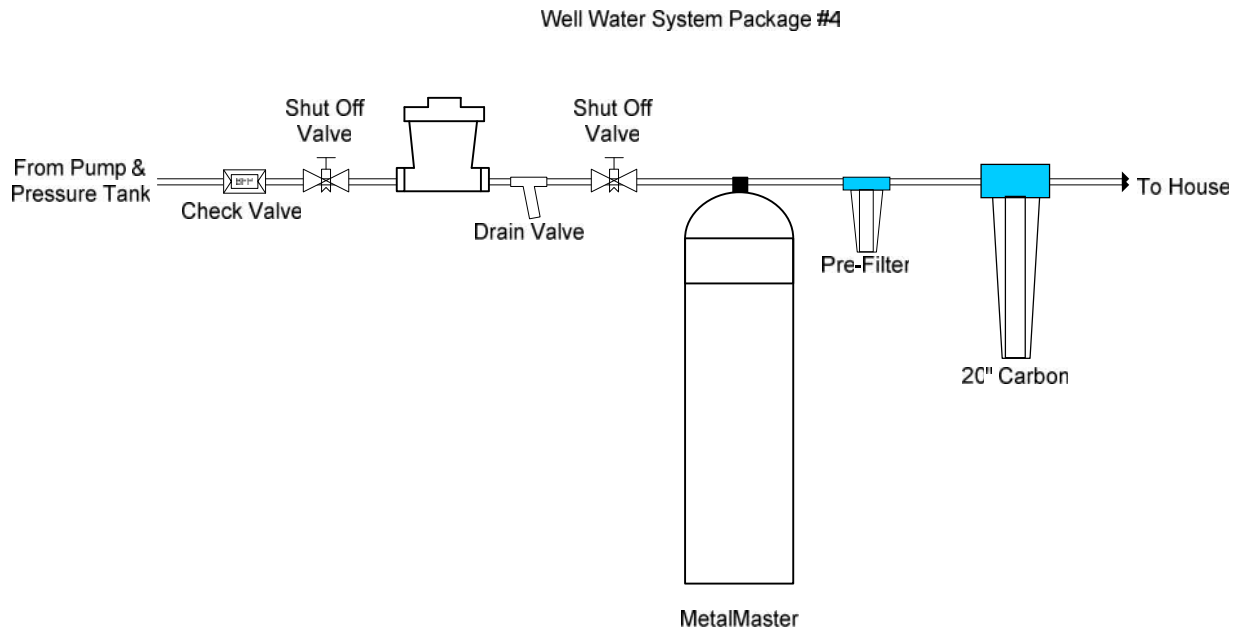
Well Water System Package #1



Well Water System Package #3



Example Installation Diagrams



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