

# INSTALLATION & OWNER'S MANUAL

## **Enviro-Flo, Inc. Enviro-Chlor Tablet Chlorinator**



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## **MODEL DESCRIPTION**

The Enviro-Flo Inc. Enviro-Chlor tablet chlorinator is a dry chemical dosing system for wastewater applications designed to provide automatic control over the chemical application rate and maximize installation flexibility on residential wastewater treatment systems. This product has been successfully tested in accordance with NSF/ANSI Standard 46 (2010).

The Enviro-Chlor chlorinator is a flow rated proportional chemical dosing unit. The unit is designed to be attached to any residential wastewater treatment. The unit accommodates flow rates from 500 gallons per day to 1500 gallons per day. The Enviro-Chlor chlorinator is constructed from durable PVC and can be connected to any Schedule 40 PVC piping. When properly installed, the Enviro-Chlor chlorinator will provide long term, unattended operation, and precise chemical application through the rated flow ranges.

Please familiarize yourself with the contents of this manual prior to proceeding with the installation and operation.

## **PROCESS DESCRIPTION**

The Enviro-Chlor tablet chlorinator is designed to feed 2 5/8" Pro Chlor, or PPG Accu-Tab chemical tablets in gravity flow applications while connected to residential wastewater treatment systems. The Enviro-Chlor chlorinator is designed to work with all aerobic treatment units and cannot be used in pressurized applications.

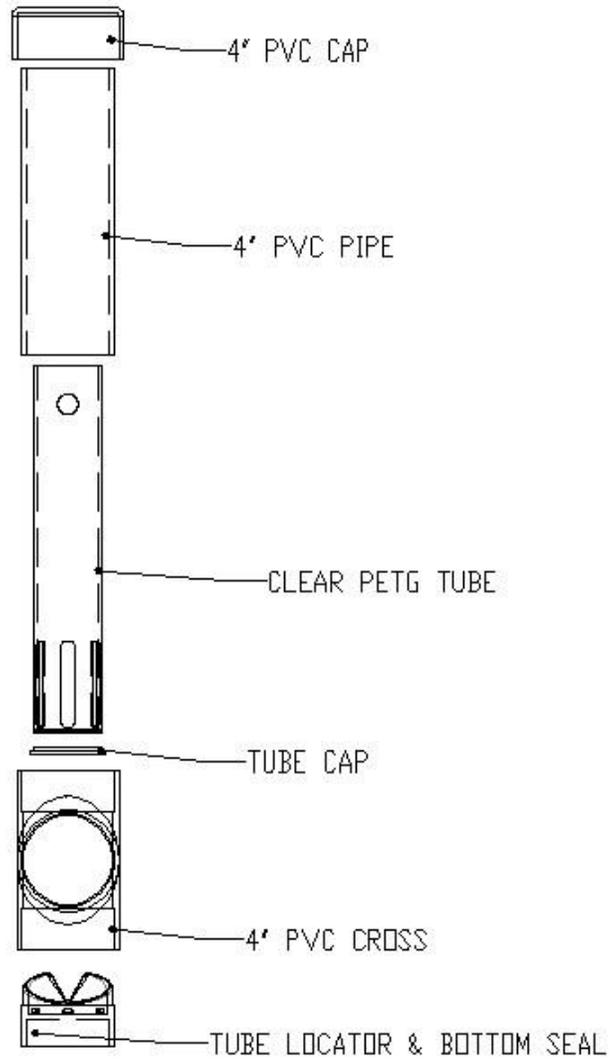
The Enviro-Chlor chlorinator is a flow rated proportional chemical dosing device. Flow to be treated enters the tablet feeder through the integral inlet hub. The liquid then proceeds to the flow deck where the chemical tablets are contained in the chemical feed tube. The flow deck has several different levels which accommodate the different flow rates and properly channel liquid to the chemical tablets. Active chemicals from the tablets are released into the flow stream as the liquid erodes the tablets. When the incoming flow rate increases, the liquid level in the tablet feeder rises. The increase in liquid level causes the flow to contact more tablets and provides additional chemical release required for treatment. As the flow rate decreases, it contacts fewer tablets, reducing the chemical dosage. After contact with the chemical tablets, properly treated liquid exits the tablet feeder through the outlet hub.

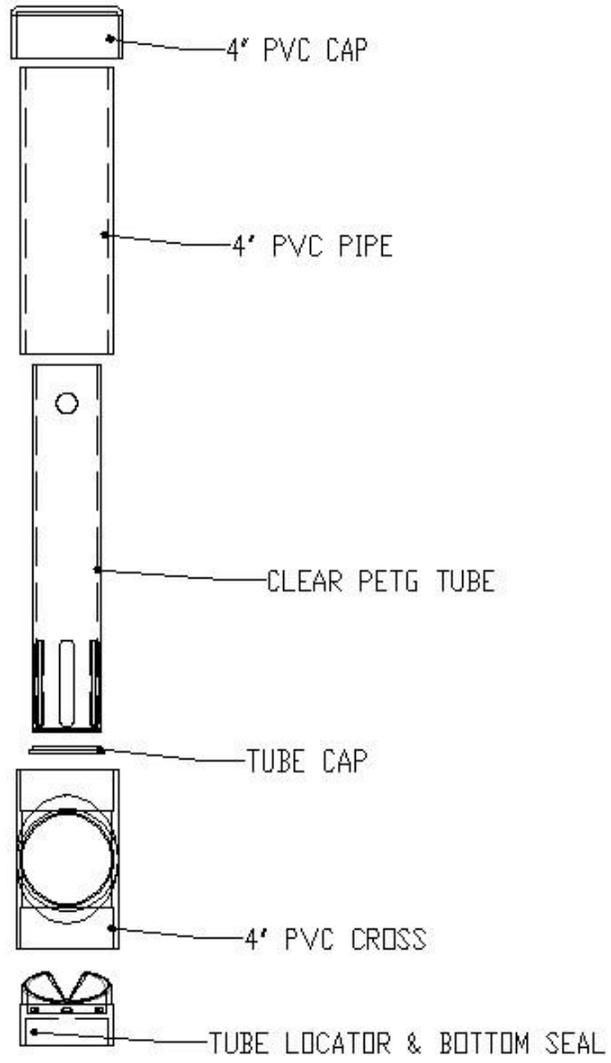
## **SYSTEM PERFORMANCE**

The Enviro-Chlor chlorinator is listed as a chlorine disinfection device for secondary effluent from residential wastewater treatment systems under NSF/ANSI Standard 46 (2010). Certification requires the use of Pro Chlor, or PPG Accu-Tab disinfecting tablets.

# NuWater, LLC

## Model Chlorinator Basic Design & Flow Path





# Enviro-Chlor Tablet Chlorinator Installation Instructions

For long term reliable and efficient operation, it is essential that the system be installed in accordance with these instructions. Refer to the system drawing for component arrangement. The Enviro-Chlor tablet chlorinator can be installed into any gravity flow wastewater treatment system following the clarification. Integrally molded inlet and outlet hubs allow direct connection of the tablet feeder to Schedule 40 PVC piping. Adapter couplings should be used, if necessary, to modify piping diameters and insure a secure piping connection to the tablet feeder. The tablet feeder must be installed plumb and level to insure proper operation. Place a bubble level on the feeder before final installation to confirm the unit is plumb and level, side to side and end to end. Always recheck level after installation.

The Enviro-Chlor tablet chlorinator can be installed on existing systems. If the piping on the existing system is in good condition, the feeder can be fitted directly into the appropriate location. It is necessary to inspect all upstream and downstream components to be sure they are installed and operating properly to ensure the Enviro-Chlor tablet chlorinator works properly.

Prior to filling the feed tube, carefully read the product container label. Always wear rubber gloves and safety goggles or a face shield. Follow all the handling instructions for the chemical tablets used. To fill the feed tube, remove it from the feeder. Rinse the feed tube and cap with fresh water. Hold the tube, slotted end up, at an angle and slide the chemical tablets into the open feed tube, one tablet at a time. Insure that each tablet lies flat, against the next and evenly on top of each other. Use a gloved hand to retain the tablets inside the feed tube until the tube has been completely filled. Return the tube to the upright position. Replace the cap and slide the feed tube into the body of the feeder, slotted end down. The slots in the bottom of the feed tube must properly engage the locating ribs molded into the flow deck. Be sure the feed tube is fully engaged within the feeder. To keep track of your tablet consumption, a Chemical Consumption Record is included in these instructions for your use.

## Pro Chlor and Accu-Tab Disinfecting Tablets

Pro Chlor and or PPG Accu-Tab 2 5/8" disinfecting tablets are available from your local Enviro-Flo, Inc. distributor. Proper tablets insure dependable disinfection for the low, sustained, and variable flow rates in residential wastewater applications. The tablets are manufactured for wastewater disinfection use only.

# Enviro-Chlor Tablet Chlorinator

## ***OPERATING INSTRUCTIONS***

Once installed, be sure the entire liquid stream from the facility being served flows through the feeder. Confirm the proper chemical tablets are being used in the feed tube, and the feed tube is firmly engaged in the retaining ring and locating ribs of the flow deck.

## ***ROUTINE MAINTENANCE***

The Enviro-Chlor tablet chlorinator requires very little maintenance other than periodic cleaning and refilling of the feed tubes. When performing maintenance, always follow the safety precautions outlined in the handling instructions for the chemicals used in the feeder. Before refilling the feed tubes, rinse the tube and cap thoroughly with fresh water. The liquid flow will normally prevent accumulation of debris during routine operation. However, if a malfunction of the treatment unit occurs, debris may become lodged within the feeder. This is easily removed with a brush or a gloved hand.

## ***INTERMITTENT USAGE***

During a period of intermittent use or extended periods of non-use, feed tubes should be removed and stored in a well-ventilated, dry, secure location. Refer to the tablet container label and material safety data sheet for detailed safety, storage, and/or disposal instructions for the chemical tablets.

## ***SYSTEM SAFETY***

All installations not protected by a safety fence or in a secure location should be equipped with a Schedule 40 PVC riser pipe with tamper-proof pipe cap. Only authorized personnel should have access to the tablet feeder and its components. Rubber gloves and safety goggles or a face shield should always be worn when providing service to any chemical feed system. Toxic fumes present in wastewater and/or tablets may accumulate with the feeder and cause personal injury or death. All safety and handling procedures for chemical tablets must be followed completely. The tablets can be very dangerous and should be handled with extreme caution. Thoroughly read chemical container label before use. Only trained personnel using the proper safety procedures and approved equipment should be allowed in the vicinity of a treatment system.

## **LIMITED WARRANTY**

Enviro-Flo, Inc. (hereinafter referred to as Manufacturer) warrants each wastewater treatment system components to be free of defects in materials and workmanship for a period of two (1) years from the date of purchase. When properly registered with the manufacturer, Manufacturer's sole obligation under this warranty shall be to repair or exchange any component part, F.O.B. factory, that in manufacturer's judgment shows evidence of defects, provided said component part has been paid for and is returned through an authorized dealer, transportation prepaid. The warranty must specify the nature of the defect to the Manufacturer.

This warranty applies only to the disinfection system, and does not include any of the house wiring, plumbing, drainage, or disposal system. Manufacturer is not responsible for any delay or damages caused by defective components or material, or for loss incurred because of interruption of service, or for any other special or consequential damages or incidental expenses arising from the manufacture, sale, or use of this system.

This warranty does not cover systems that have been flooded by an external means, disassembled by unauthorized persons, improperly installed, subjected to external damage, damage due to improper electrical wiring, or systems treating other than normal household wastewater.

Manufacturer reserves the right to revise, change or modify the construction and design of the treatment system or any component system or any component part or parts thereof without incurring any obligation to make such changes or modifications to previously sold equipment. Manufacturer also reserves the right, in making replacements of component parts under this warranty, to furnish a component part which, in its judgment, is equivalent to the part replaced.

Under no circumstances will manufacturer be responsible to warrantee for any other direct or consequential damages, including but not limited to lost profits, lost income, labor charges, delays in production, which damages are caused by a defect in materials and/or workmanship in its parts.

This warranty is expressly in lieu of any other expressed or implied warranty, excluding any warranty of merchantability or fitness, and of any other obligation on the part of Manufacturer.

Warranty applies only to the disinfection system itself and does not include any of the purchaser's plumbing, drainage, and or disposal systems or household wiring and/or any plumbing or device added after the outlet.