

## Irrigation Line Cleaning

Irrigation lines deliver precious nutrients to your crop. Biofilm and scale can clog drippers and irrigation lines, giving inconsistent watering and nutrient delivery. Use Athena® Renew between runs to ensure your irrigation lines are free of biofilm and scale. For older dirty lines that have been used with organic inputs, you may need to repeat cleaning several times in order to clear all the organic material out of the lines. Follow the steps below to renew your irrigation system with Athena® Renew and start clean every time.

	Normal Cleaning	Heavy Scale /Biofilm	System Sterilization
Renew	1 oz per gallon	2 oz per gallon	
Reset			1 oz per gallon

## Dosing Compatibility

Athena® Renew can be dosed into your reservoir with a Dosatron that is compatible with oxidizers. Other dosing systems require special seals that will allow them to dose acids or oxidizers.

Venturi based systems, like a netaflex, are not compatible with Renew and should be hand mixed into your reservoir after the injection system.

Dosing by hand into your reservoir is the easiest way to avoid problems with injection systems.



Athena®  
Renew



Athena®  
Reset

## Step by Step Procedure:



**WARNING:** MAKE SURE TO WEAR PROPER PPE WHEN HANDLING THESE PRODUCTS.

- |                   |   |
|-------------------|---|
| <b>1 Clear</b>    | Clear grow of all plants.   |
| <b>2 Add</b>      | Add Athena® Renew to reservoir either by hand or through a doser.   |
| <b>3 Open</b>     | Open flush valve at end of drip lines to allow Renew to flow through lines but not drippers.  |
| <b>4 Close</b>    | Close lines and turn off system quickly.  |
| <b>5 Hold</b>     | Let system sit for 12-24 hours.   |
| <b>6 Flush</b>    | Open flush valve at end of irrigation lines and flush system of biofilm biomass and scale.<br><br><b>NOTE:</b> It is important to do this in a manner to not push scale into micro drippers or they could clog. |
| <b>7 Refill</b>   | Refill reservoir with a small amount of water and Renew at (1 oz or 2 oz).  |
| <b>8 Activate</b> | Activate all emitters and push Renew through system one final time to clean drippers and drip tubes without clogging.   |
| <b>9 Flush</b>    | Flush system with 1 oz per gallon of Athena® Reset to sterilize.  |
| <b>10 Flush</b>   | Flush system with clean water.  |
| <b>11 Refill</b>  | Refill system with nutrients and commence fertigation.  |