

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 clean your irrigation lines, remove inanimate scale, and prepare the surface for application of disinfectants. 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 inanimate organic particulates 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 **Athena® 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.

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



WARNING: MAKE SURE TO WEAR PROPER PPE WHEN HANDLING THESE PRODUCTS, INCLUDING GOGGLES, FACE SHIELD WITH RESPIRATOR, COVERALLS WORN OVER LONG-SLEEVED SHIRT AND LONG PANTS, SOCKS, CHEMICAL RESISTANT FOOTWEAR, AND WATERPROOF GLOVES.

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