

# ASAE - AE50 Award-Winning **Add-It®** Proportioning Fertilizer Injector

Series 5000 - 5 Gallon Capacity

## Installation, Operation and Maintenance

The Add-It® proportioning fertilizer injector can be installed in any irrigation system where controlled application is desired. Through its unique hydraulic design, the existing water flow forces water into the additive tank. And then, that same flow forces the mixture back into the main line. It's amazing, yet simple!

There must be a minimum flow rate of water passing through the injector for it to function:

Model	Inlet & Outlet	Minimum Flow Rate (GPM)	Gallons Flow to Empty
AFI 5000-50	½" FPT x ½" FPT	½	1,000
AFI 5000-75	¾" FPT x ¾" FPT	2	1,000
AFI 50000-75-H	¾" FHT x ¾" MHT	2	1,000
AFI 5000-10	1" FPT x 1" FPT	5	1,000
AFI 5000-15	1½" FPT x 1½" FPT	10	1,000
AFI 5000-20	2" FPT x 2" FPT	20	1,000

A minimum of 10 PSI (pounds per square inch) of pressure is required in the irrigation system where the injector is to be installed.

Care must be taken in insuring that anything that is placed into the fertilizer tank cannot flow back into the potable water system. An approved backflow device, an anti-siphon valve, a pressure vacuum breaker, or reduced pressure backflow preventer, must be installed upstream from the fertilizer injector. The injector should be mounted lower than the backflow prevention device and higher than the irrigation system. Do *not* operate at pressures exceeding 100 PSI. The injector may be operated under constant pressure.

### ***Consult with Your Water District for Local Codes and Regulations!***

The inlet and outlet of the injector are opposite each other. The inlet and outlet may be rotated 360°, or to any angle that assists in the installation.

Fertilizer must be in liquid form when it's poured into the Add-It® fertilizer injector. If using a premixed liquid, you can pour it in full strength. If using dry, totally water soluble granular fertilizer, such as Scotts Miracle-Gro® or Peters Professional®, Bandini Pro Choice®, or Grow More, premix with water at a ratio of 1 pound (or 1 bag) of dry formula to 1 gallon of water. Fish emulsion or any petroleum based additives can only be used in the injector if they have been premixed with water at a 1 to 1 ratio. Read and follow the directions printed on the container of fertilizer. On average, 1 gallon of fertilizer will cover approximately 1,000 square feet.

When assembling the 'T' inlet and outlet onto the top of the injector, hand tightens only! Do not use a wrench of any type. When preparing to insert a threaded male fitting into the injector inlet or outlet, apply only Teflon tape (usually 2 to 3 wraps will be sufficient) to the threads before inserting them into the 'T' assembly. Only use a wrench for the last half to full turn. Be careful not to over tighten!

To fill the injector, remove the top fill cap which is on top of the unit. Insert the fill funnel which came with the injector into the opening, and pour in 10 gallons of liquid solution. Remove the fill funnel, replace the cap, and the injector is ready for operation.

Turn on the irrigation system. It will take approximately 2,000 gallons of water passing through the irrigation system to empty the Add-It® injector completely. For example, let's say that your irrigation system is operating at a flow rate of 10 gallons per minute. Knowing that it takes 1,000 gallons of water to empty the injector, divide this number by the flow rate of 10 GPM. You now know that it will take you 100 minutes (or 1-2/3 hours) to not only water, but also fertilize your plants.

When the time comes to refill the injector, simply turn off the water by closing the control valve installed before the injector. Then remove both the drain cap on the bottom and the fill cap on the top. Allow all of the water to drain from the tank, and replace the bottom drain cap. Place the fill funnel in the top fill opening and refill the injector completely. Replace top fill cap and turn the irrigation system back on. Once you have completed watering, there is no need to drain the fertilizer tank, unless you want to refill it to have it ready for your next irrigation cycle. It will not harm the unit to have water running through it when you are not fertilizing. To the contrary, the clear water passing through the injector will help keep it clean.

Once you have completed watering, there is no need to drain the fertilizer tank unless you want to refill it to have it ready for your next irrigation cycle. It will not harm the unit to have water running through it when you are not fertilizing. To the contrary, the clear water passing through the injector will help keep it clean. Fertilize as recommended during the growing season.

During the winter months, if there is a possibility of freezing in your area, the tank should be **drained** and left **vented** to atmosphere to prevent the injector from being damaged. Also, if installing the injector in direct sunlight, it is imperative that you totally **cover** the injector to protect it from the elements, especially the sun's damaging ultraviolet light. Painting the tank with water-based acrylic latex house paint, or most spray paints, will also add to the protection. **Never** pressurize the tank unless it is completely full of a liquid!

***A Leading Manufacturer of Proportioning Fertilizer Injectors for the Irrigation Industry!***

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Series 5000 - 5 Gallon Capacity

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### Dimensions

Length	Width	Height
2' - 4"	10"	1' 6"

Patent No. 4846214  
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### ATTENTION

**Never** pressurize the Add-It® fertilizer injector without it being completely full of either water, fertilizer, or approved additive! Do **not** install the injector in direct sunlight! **Always** drain unit if there is a chance of freezing!

### WARRANTY

Add-It® fertilizer injectors are guaranteed for a period of one year from the date of purchase against defective materials and workmanship when installed and operated per instructions and used in a normal manner. Buyer assumes all responsibility for safety and use not in accordance with instructions and directions.

## **Strong Injectors**™

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