

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

1½ Quart, ½ Gallon, 1 & 2 Gallon Capacity Models

## Installation, Operation and Maintenance

Add-It® proportioning fertilizer injectors 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. 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. Please consult chart below:

Model	Capacity	Inlet & Outlet	Minimum Flow Rate (GPM)	Gallons Flow to Empty
AFI 5025	1½ Quart	1/2" FPT x 1/2" FPT	½	75
AFI 7525	1½ Quart	3/4" FPT x 3/4" FPT	2	75
AFI 7525-H	1½ Quart	3/4" FHT x 3/4" MHT	2	75
AFI 1025	1½ Quart	1" FPT x 1" FPT	5	75
AFI 5050	½ Gallon	1/2" FPT x 1/2" FPT	½	100
AFI 7550	½ Gallon	3/4" FPT x 3/4" FPT	2	100
AFI 1050	½ Gallon	1" FPT x 1" FPT	5	100
AFI 5010	1 Gallon	1/2" FPT x 1/2" FPT	½	200
AFI 7510	1 Gallon	3/4" FPT x 3/4" FPT	2	200
AFI 1010	1 Gallon	1" FPT x 1" FPT	5	200
AFI 1510	1 Gallon	1-1/2" FPT x 1-1/2" FPT	10	200
AFI 2010	1 Gallon	2" FPT x 2" FPT	20	200
AFI 5020	2 Gallon	1/2" FPT x 1/2" FPT	½	400
AFI 7520	2 Gallon	3/4" x 3/4" FPT	2	400
AFI 1020	2 Gallon	1" FPT x 1" FPT	5	400
AFI 1520	2 Gallon	1-1/2" FPT x 1-1/2" FPT	10	400
AFI 2020	2 Gallon	2" FPT x 2" FPT	20	400

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 80 PSI. The injector may be operated under constant pressure.

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

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 liquid fertilizer will cover 1,000 square feet.

Apply Teflon tape to the male pipe threads before inserting them into the injector for installation. Usually 2 to 3 wraps will be sufficient. Hand tighten the fittings, except for the last full turn, when you may use a wrench or pliers. Be careful not to over tighten!

To initially fill the injector, remove the top fill cap. Insert a fill funnel into the opening and pour in liquid solution. Fill the unit *completely*. Replace the cap and the injector is ready for operation. Turn on the irrigation system. Consult chart above to determine how many gallons of water passing through the irrigation system it will take to empty the Add-It® fertilizer injector completely. For example, let's say that you've installed the Model AFI 7550 and the irrigation system is operating at a flow rate of 3 gallons per minute. Knowing that it takes 100 gallons of water to empty the injector, divide this number by the flow rate of 3 GPM. You now know it will take approximately 33 minutes, or just over half-an-hour, to not only water your lawn or trees, but also fertilize.

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.

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

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Fertilize as recommended during the growing season. During the winter months, if there is a possibility of freezing in your area, it is highly recommended that the tank be left **drained** and **vented** to atmosphere. Cover the tank to further protect it from the elements, especially the sun's ultraviolet light. Painting the unit with water-soluble acrylic latex house paint, covering it with an enclosure, or burying it in a valve box, will extend the life of the injector. Do **NOT** install the injector in direct sunlight!

**NEVER** pressurize the Add-It® fertilizer injector without it being completely filled with either water, fertilizer, or approved additive!

### 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.

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## **Strong Injectors™**

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