

# Fertilize as You Irrigate!

with the pint capacity **Add-It**® fertilizer injector and foliar feeder



Fertilizing is not the labor intensive task it used to be. If you have a drip irrigation system, you already know you can no longer broadcast dry fertilizer and expect it to be leached into the soil by overhead watering, where the roots can absorb it. With a drip irrigation system, the fertilizer has to be in the water as it's applied to the individual plants. This is known as fertigation. **Add-It**® is preset to apply the optimum rate of fertilizer and/or additive that will benefit all the plants on your drip irrigation system, or hose-end sprinkler or spray. Now you can fertilize without cumbersome spreaders. Simply let **Add-It**® do all the work for you!

The pint capacity **Add-It**® fertilizer injector and foliar feeder can be attached to any hose bib or garden valve with hose threads. **Add-It**® will save you time and money. Best of all, you can use your favorite totally water-soluble granular fertilizer such as Scotts Miracle Gro® or Peters Professional®, Bandini Pro Choice®, or Grow More®, when premixed with water. You may also want to consider dispensing a wetting agent (surfactant) like Grow More E-Z Wet Soil Penetrant 26® to help breakup compacted soils, compost tea to increase micro-organisms in the soil, micro-nutrients or Vitamin Institute's SUPERthrive™ containing vitamins and hormones for healthier plants, or vitamin B-1 when transplanting trees and shrubs.

**Add-It**® is preset to apply the optimum rate of fertilizer and/or additive that will benefit all the plants on your drip and/or conventional sprinkler irrigation system, or hose-end sprinkler/spray.

Over many years, tests have concluded that applying liquid fertilizer on a regular basis is much more beneficial to a plant than being fed infrequently with a dry, granular form of fertilizer. Liquid fertilizer is absorbed far more easily by a plant's root system, and there are no leftover residues or minerals that can, over a period of prolonged use, damage a plant or lawn.

Why is liquid fertilizer recommended? Because studies have shown that all fertilizers must be in liquid form before they can be absorbed by plants. The properties of liquid fertilizers are far different from dry forms (such as time-release pellets) by the manner in which they move through the soil and become available to plants and grass. Liquid fertilizer (which includes water soluble fertilizer that has been pre-mixed with water) is faster and superior to dry forms when applied in frequent, small amounts. This enables plants to absorb the nutrients before they are washed away. This also means that there are no stress periods of high and low levels of fertilizer which inhibit growth, and no leaching can take place by over watering, which might contaminate natural waters.

**Add-It**® fertilizer injectors have received the prestigious **AE50** award of recognition from the **American Society of Agricultural Engineers** for outstanding innovations in product design. They have also been featured in *Sunset* magazine, seen on **HGTV's - Gardening by the Yard**, and is member tested and recommended by the **National Home Gardening Club!**

Rev. 2014-B

**Strong Injectors**™

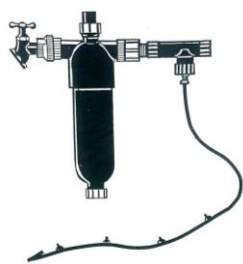
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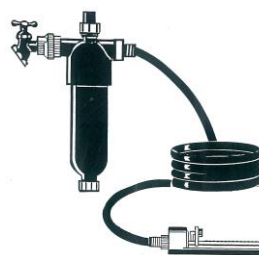
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***Fertigation....the easy, efficient and economical way to fertilize as you irrigate!***

## AFI 5016-H and AFI 5016-HV Add-It® Fertilizer Injector Installation, Operation and Maintenance



Drip Irrigation System



Hose-End Sprinkler/Spray

**IMPORTANT:** Attach an anti-siphon vacuum breaker to the hose bib before attaching the injector. The pint capacity Add-It fertilizer injector is **not** designed to be installed under constant line pressure. Maximum working pressure is 60 PSI. A minimum flow rate of ½ gallon per minute is required for the injector to function! It is designed to be attached to a hose bib or garden valve with hose threads. The female hose swivel is the inlet side and the male hose thread is the outlet side of the injector. Do **not** use a wrench to tighten the hose swivel on the injector. Only hand tighten! The inlet/outlet of the injector should be as horizontal as possible with the tank hanging down vertically. The **Add-It®** injector should **never** be installed in direct sunlight. If there is a chance of freezing, drain the unit leaving it vented to atmosphere. Never use a petroleum based product in this injector. **Always** be sure the **Add-It®** injector is completely full of either additive or water before pressurizing or operating the irrigation system!

Fertilizer must be in liquid form when it's poured into the proportioning **Add-It®** fertilizer injector and foliar feeder. If using a premixed liquid, usually you can pour it in full strength. If using a 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 to 1¼ pound of dry formula (i.e. one small bag of Miracle-Gro® general purpose plant food, 15-15-15 or 20-20-20) to 1 gallon of water. Fish emulsion or any petroleum-based additive can **only** be used in the **Add-It®** injector when they have been premixed with water. Read and follow the manufacturer's directions printed on the fertilizer container. When using the **Add-It®** as an injector in a drip irrigation system, you may also want to consider dispensing a wetting agent (surfactant) like Grow More E-Z Wet Soil Penetrant 26® to help breakup compacted soils, compost tea to increase micro-organisms in the soil, micro-nutrients or Vitamin Institute's SUPERthrive™ containing vitamins and hormones for healthier plants, or vitamin B-1 when transplanting trees and shrubs. Usually, 1 gallon (or 8 pints) of liquid fertilizer will cover approximately 1,000 square feet, according to most manufacturers' specifications. When using the **Add-It®** as a foliar feeder for lawns, only pour a liquid solution of fertilizer or wetting agent into the additive tank! When using the **Add-It®** as a foliar feeder for trees and shrubs, only pour in a solution of fertilizer, no other additive!

To initially fill the **Add-It®** fertilizer injector and foliar feeder, remove the top fill cap. Insert the fill funnel into the opening and pour in liquid solution. Fill the tank **completely**. Replace the top cap, and the **Add-It®** fertilizer injector is ready for operation. Turn on the irrigation system at the hose bib. Consult the chart below to determine how many gallons of water will pass through the irrigation system to empty the **Add-It®** fertilizer injector and foliage feeder. For example, let's say that you've installed the **Add-It®** injector into a drip irrigation system, and the flow rate of 2 gallons per minute (GPM). It will take 15 gallons of water passing through the injector to empty it. Simply divide 15 by the flow rate of 2 GPM. You now know it will take approximately 8 to 10 minutes to not only water your trees, shrubs and lawn, but also fertilize them as well. Extreme care must be taken before pressurizing the **Add-It®** injector.

When the time comes to refill the **Add-It®** injector, turn off the water supply at the hose bib. Remove both the bottom drain cap and the top fill cap. Allow all of the water to drain from the unit and replace the bottom drain cap. Place the fill funnel in the top opening and recharge the **Add-It®** injector. Replace the top fill cap and turn on the irrigation system. Once you have completed watering, it is not necessary to drain the unit. If there is fertilizer or additive still in the tank, it will be dispensed the next time you operate your irrigation system. Once all the additive has been dispensed, it will not harm the unit to have water running through it when you are not fertilizing. On the contrary, the clear water passing through the **Add-It®** injector will help keep it clean inside. Fertilize as often as recommended by the fertilizer manufacturer during the growing season, at least once a month. For optimum plant growth and health, we recommend you use the **Add-It®** fertilizer injector and foliar feeder on a weekly basis, and no less than once a month, during the growing season.

### Warranty

The pint capacity **Add-It®** fertilizer injector and foliar feeder is 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.

**Fertigation....the easy, efficient and economical way to fertilize as you irrigate!**