



Add-It™ Automatic Proportional Fertilizer Injector

INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

DIG® Add-It™ ¾" FHT X MHT 1-Pint (.48 L) Automatic Proportional Fertilizer Injector

Model AFI 5016-H, FHT x MHT without ¾" Backflow Preventer

Model AFI 5016-HV, FHT x MHT with ¾" Backflow Preventer

INTRODUCTION

Thank you for purchasing the DIG Add-It™ ¾" FHT inlet x MHT outlet, 1-pint, Automatic Proportional Fertilizer Injector.

Please take the time to read through the enclosed instructions and follow them step by step. If you have any questions, please call DIG's customer service line at 1.800.344.2281 or 1.760.727.0914.

ABOUT THE DIG ADD-IT™ AUTOMATIC PROPORTIONAL FERTILIZER INJECTOR

The 1-pint capacity, Add-It™ Automatic Proportional Fertilizer Injector (AFI) is designed to feed your garden plants using any liquid fertilizer (or premixed solution of water-soluble granular fertilizer) through a drip irrigation system, sprinkler system or garden hose. The Add-It™ AFI requires a minimum flow rate of 30 gallons per hour (½ GPM) or a minimum drip system with 30, 1 GPH drippers to operate.

Please Note: The Add-It™ AFI 5016-HV comes with a ¾" backflow preventer that should be connected to the water source upstream of the Add-It™. The Add-It™ and the backflow preventer are designed to operate under a pressure of up to 60 PSI. The unit is not recommended to be installed under constant line pressure.

INSTALLATION

A minimum pressure of 10 PSI and a minimum flow rate of .5 GPM (30 GPH) are required.

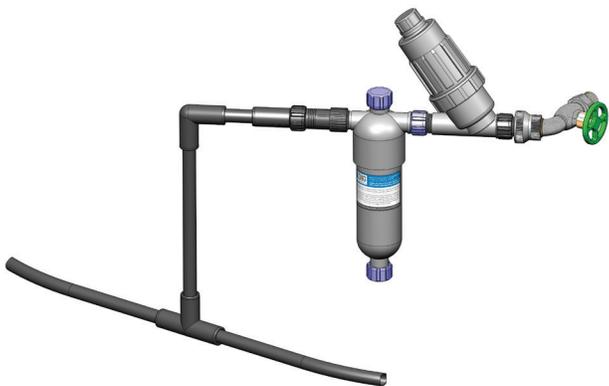
When installing the Add-It™ AFI with ¾" backflow preventer, select one of the following two options.

Option 1: Drip system installation with hose thread

Start the installation at the water source by attaching the backflow preventer (included with Add-It™ # AFI 5016-HV) to your faucet, then the Add-It™. If installed with a drip system, add a Y filter and then a 25 PSI preset pressure regulator. To automate the system, use one of DIG's battery or solar powered hose end timers (model B09D, EVO 100 or BOHE-BT) available online or in a store near you. Make sure to install the timer to the faucet before the backflow device.

Option 2: Add-It™ to a hose and hose-end sprinkler/spray

Start the installation at the water source by attaching the backflow preventer (included) to your faucet, followed by the Add-It™ AFI. Next, connect a garden hose to the male outlet of the Add-It™ and then install a hose-end sprinkler or hand sprayer to the end of the garden hose.



Please Note: Do not add fertilizer when the unit is under pressure.

Do not use a wrench to tighten the hose swivel connectors; these fittings should be tightened by hand only. The inlet/outlet of the Add-It™ AFI should be as horizontal as possible with the canister in a vertical position. Install the Add-It™ only outdoors, and do not use hot water. It should not be installed in direct sunlight; direct sunlight could adversely affect the liquid fertilizer nutrients and shorten the lifespan of the unit. The Add-It™ can be left outside, attached to the faucet (hose bib). It can also be moved from faucet to faucet to fertilize different plants and trees, areas or sections. If you choose to leave the unit outside during the winter months and there is a possibility of freezing, it is highly recommended that the unit be left drained and vented to prevent any damage.

FILLING THE ADD-IT™ AUTOMATIC PROPORTIONAL FERTILIZER INJECTOR

1. To initially fill the Add-It™ AFI, remove the top fill cap, insert the fill funnel (included) into the opening and pour in the liquid solution. Make sure to fill the tank completely. Replace the top cap, and the Add-It™ AFI is ready for operation.
2. Turn on the irrigation system at the faucet (hose bib). Consult the chart below to determine how many gallons of water will pass through the irrigation system to empty the Add-It™ AFI.

Example: If you have installed the Add-It™ AFI into a drip irrigation system with a flow rate of 2 gallons per minute (GPM), from the chart below you know it will take 15 gallons of water passing through the Add-It™ to empty it. Divide 15 by the flow rate of 2 GPM. You now know it will take approximately 8 minutes to not only water your trees, shrubs and lawn, but also fertilize them as well.

Model	Inlet/Outlet	Capacity	Minimum Flow Rate	Gallons to Empty
AFI 5016-H	¾" FHT x ¾" MHT	Pint	½ GPM	15
AFI 5016-HV*	¾" FHT x ¾" MHT	Pint	½ GPM	15

*With backflow preventer included

REFILLING THE ADD-IT™ AUTOMATIC PROPORTIONAL FERTILIZER INJECTOR

When the time comes to refill the Add-It™ AFI, turn off the water supply at the faucet (hose bib). Remove both the bottom drain cap and the top fill cap. Allow all the water to drain from the unit, and replace the bottom drain cap.

1. Place the fill funnel in the top opening and refill the Add-It™ AFI. Replace the top fill cap and turn on the irrigation system.
2. 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.
3. Once all the additive has been dispensed, it will not harm the unit to have water running through it when you are not fertilizing.

Note: It takes 15 gallons of water passing through the Add-It™ AFI to empty it.

SELECTING LIQUID FERTILIZER OR PREMIXED LIQUID OF WATER-SOLUBLE GRANULAR FERTILIZER

To apply liquid fertilizer to the Add-It™ AFI, please follow the recommendations provided by the fertilizer manufacturers. For optimum plant growth and health, DIG recommends using the Add-It™ on a monthly or bimonthly basis during the growing season.

ABOUT THE LIQUID FERTILIZER NUTRIENTS OR PREMIXED LIQUID OF WATER-SOLUBLE GRANULAR FERTILIZER

1. The fertilizer must be in liquid form when it's poured into the Add-It™ AFI.
2. If using a premixed liquid, you can pour it in full strength. If using a dry, totally water-soluble granular fertilizer such as Scotts Miracle-Gro®, Peters Professional®, Bandini Pro Choice® or Grow More®, premix with water at a ratio of 1 to 1¼ pounds of dry formula (i.e. 1 small bag of Miracle-Gro® general purpose plant food, 15-15-15 or 20-20-20) to 1 gallon of water.
3. Fish emulsion or any petroleum-based additive can only be used in the Add-It™ when they have been premixed with water at a 1 to 1 ratio. Please read and follow the manufacturer's directions printed on the fertilizer container or bag purchased.
4. When using the Add-It™ AFI with a drip irrigation system, you may also want to consider dispensing a wetting agent (surfactant) such as Grow More E-Z Wet Soil Penetrant 26® to help break up compacted soils, compost tea to increase micro organisms in the soil, micro nutrients or Vitamin Institute's SUPER thrive™ containing vitamins and hormones for healthier plants, or vitamin B-1 when transplanting trees and shrubs. Typically, 1 gallon or 8 pints (3.6 L) of liquid fertilizer will cover approximately 1,000 square feet (93 s/m), according to most manufacturers' specifications.
5. When using the Add-It™ as a foliar feeder on lawns through your garden hose connections, use a liquid solution of fertilizer or wetting agent.
6. When using the Add-It™ as a foliar feeder on trees and shrubs, only pour in a solution of fertilizer without combining with other additives.
7. Always be sure the Add-It™ AFI is completely full of either additive or water before operating the irrigation system.

TECHNICAL INFORMATION

The Add-It™, 1-pint (.42 L) AFI Injector dispenses fertilizer and additives at a consistent, predetermined rate at a ratio of 100:1, 100 parts water to 1-part additive, thus eliminating the problem of uneven application.

For technical support and/or troubleshooting assistance, please call DIG at **1.800.344.2281**

WARRANTY

DIG CORPORATION THREE-YEAR WARRANTY DIG CORPORATION warrants the Add-It™ AFI to be free from defects in material and workmanship for a period of three years from date of purchase. This warranty does not cover damage resulting from accident, misuse, neglect, modification, improper installation or subjection to line pressure in excess of 60 lbs. (4.2 BAR) per square inch. This warranty shall extend only to the original purchaser of the product for use by the purchaser. This warranty shall not cover any malfunction of the product due to pressure exceeding the recommended pressure. Buyer assumes all responsibility for safety and use not in accordance with instructions and directions manual. The obligation of DIG CORPORATION under this warranty is limited to repairing or replacing at its factory this product which shall be returned to the factory within three years after the original purchase and which on examination is found to contain defects in material and workmanship. DIG CORPORATION SHALL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND; THE SOLE OBLIGATION OF DIG IS LIMITED TO REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. Unattended use for prolonged periods without inspection to verify proper operation is beyond the intended use of this product, and any damage resulting from such use shall not be the responsibility of DIG CORPORATION. There are no warranties which extend beyond the description on the face hereof. In the case of purchase of the product for use other than, for irrigation and fertigation purposes, DIG CORPORATION hereby disclaims any implied warranties including any warranties of merchantability and fitness for a particular purpose. In the case of the purchase of the product for personal, family or household purposes, DIG CORPORATION disclaims any such warranties to the extent permitted by law. To the extent that any such disclaimer or implied warranties shall be ineffectual, then any implied warranties shall be limited in duration to a period of one year from the date of the original purchase for use by the purchaser. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you. In order to obtain performance under this warranty, the unit must be returned to the factory, along with proof of purchase indicating original date of purchase, shipping prepaid, addressed as follows: DIG CORPORATION, 1210 Activity Drive, Vista, CA 92081. Repaired or replaced units will be shipped prepaid to the name and address supplied with the unit returned under warranty. Allow four weeks for repairs and shipping time. Repair of damaged units not otherwise within warranty may be refused or done at a reasonable cost or charge at the option of DIG CORPORATION. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.