

ASAE – AE50 Award-Winning **Fertilizer Caddy®** Proportioning Fertilizer Injector

Installation, Operation and Maintenance

Read these instructions **thoroughly** before installing and operating unit. The inlet/outlet manifold of the Fertilizer Caddy should be installed higher than the additive tank. This will prevent the possibility of siphonage of additive when the unit is shut off. The additive tank should be placed on as **level** a surface as possible. If installing the injector before a manifold of valves, install an approved backflow prevention device prior to, or upstream, of the injector. Do **not** install the injector in direct sunlight! And, do **not** use a petroleum-based product in the injector! **Never** operate the unit unless it is **completely** full!

Fertilizer must be in liquid form when it's poured into the Fertilizer Caddy. If using a premixed liquid, usually you can pour it in full strength. If highly concentrated, you may want to blend it with equal parts of water before pouring it into the injector tank. 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. Because it is so thick and viscous, fish emulsion can only be used in the Fertilizer Caddy if it has been premixed with water at a 1 to 1 ratio. Read and follow the manufacturer's directions printed on the fertilizer container. When using the Fertilizer Caddy as an injector, you may also want to consider adding a wetting agent 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 of liquid fertilizer will cover approximately 1,000 square feet. When using the Fertilizer Caddy as a foliar/foliage feeder, only place a solution of fertilizer inside the additive tank, no other additive!

Model	Inlet/Outlet	Capacity	Minimum Flow Rate	Gallons to Empty
GMPC 7525	¾" FPT x ¾" FPT	1½ Quart	½ GPM	75
GMPC 7525-H	¾" FHT x ¾" MHT	1½ Quart	½ GPM	75
GMPC-1025	1" FPT x 1" FPT	1½ Quart	1 GPM	75
GMPC 7550	¾" FPT x ¾" FPT	½ Gallon	½ GPM	100
GMPC 7550-H	¾" FHT x ¾" MHT	½ Gallon	½ GPM	100
GMPC 1050	1" FPT x 1" FPT	½ Gallon	1 GPM	100
GMPC 75100	¾" FPT x ¾" FPT	1 Gallon	½ GPM	200
GMPC 75100-H	¾" FHT x ¾" MHT	1 Gallon	½ GPM	200
GMPC 10100	1" FPT x 1" FPT	1 Gallon	1 GPM	200
GMPC 15100	1½" FPT x 1½" FPT	1 Gallon	2 GPM	200
GMPC 20100	2" FPT x 2" FPT	1 Gallon	5 GPM	200
GMPC 75200	¾" FPT x ¾" FPT	2 Gallon	½ GPM	400
GMPC 75200-H	¾" FHT x ¾" MHT	2 Gallon	½ GPM	400
GMPC 10200	1" FPT x 1" FPT	2 Gallon	1 GPM	400
GMPC 15200	1½" FPT x 1½" FPT	2 Gallon	2 GPM	400
GMPC 20200	2" FPT x 2" FPT	2 Gallon	5 GPM	400
GMPC 75300	¾" FPT x ¾" FPT	3 Gallon	½ GPM	600
GMPC 75300-H	¾" FHT x ¾" MHT	3 Gallon	½ GPM	600
GMPC-10300	1" FPT x 1" FPT	3 Gallon	1 GPM	600
GMPC 15300	1½" FPT x 1½" FPT	3 Gallon	2 GPM	600
GMPC 20300	2" FPT x 2" FPT	3 Gallon	5 GPM	600
GMPC 75500	¾" FPT x ¾" FPT	5 Gallon	½ GPM	1,000
GMPC 75500-H	¾" FHT x ¾" MHT	5 Gallon	½ GPM	1,000
GMPC 10500	1" FPT x 1" FPT	5 Gallon	1 GPM	1,000
GMPC 15500	1½" FPT x 1½" FPT	5 Gallon	2 GPM	1,000
GMPC 20500	2" FPT x 2" FPT	5 Gallon	5 GPM	1,000

FPT - female pipe thread

FHT - female hose thread

MHT - male hose thread

Strong Injectors™

A Division of Strong Enterprises

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

To initially fill the Fertilizer Caddy remove the top fill cap. Insert a fill funnel into the opening and pour in liquid solution. Fill the tank completely. Replace the cap and the Fertilizer Caddy is ready for operation. Turn on the irrigation system. Consult the chart below to determine how many gallons of water need to pass through the irrigation system in order to empty the Fertilizer Caddy. For example, let's say that you've installed the gallon capacity unit and the irrigation system is operating at a flow rate of 3 gallons per minute (GPM). After consulting the chart below, you know it will take 200 gallons of water passing through the injector to empty it of additive. Next, divide 200 by the flow rate of 3 GPM. You now know it will take a little over an hour (66 minutes) to not only water your trees, shrubs and lawn, etc., but also fertilize them as well. Before pressurizing the injector, **always** be sure that the unit is completely full of fertilizer, additive or water. **Never** pressurize the unit if it is empty and contains only air! Do **not** use a petroleum-based product in the injector.

When the time comes to refill the Fertilizer Caddy, turn off the incoming water supply. Remove both the end drain cap and the top fill cap. Allow all of the water to drain from the unit and replace the end drain cap. Place a fill funnel in the top opening and recharge the Fertilizer Caddy. 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. If all of the fertilizer and/or 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 Fertilizer Caddy will help keep it clean inside. Fertilize as often as recommended by the fertilizer manufacturer during the growing season. For optimum plant growth and health, we recommend that you use the Fertilizer Caddy as a foliar/foilage feeder on a monthly basis as well.

The Fertilizer Caddy can be left outside. However, it is highly recommended that you either cover the unit to protect it from the elements, especially the sun's damaging ultraviolet light, or bury it in a valve box. Painting the unit with either an aerosol paint or a water-based acrylic latex house paint will also help protect the unit. However, it still should **not** be installed in direct sunlight! This will add to the longevity of the unit, especially if it is left out year round. If you choose to leave the unit outside during the winter months, and there is a possibility of freezing in your area, it is imperative that the unit be left drained and vented to atmosphere to prevent damage.

Warranty

The Fertilizer Caddy 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.



Patent Pending

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