

How Add-It® and Green Machine Pro® proportioning fertilizer injectors work

Add-It® and Green Machine Pro® are fabricated of PVC, except for the small pint model, which is molded ABS. Add-It® is available in capacities ranging from 1 pint up to 10 gallons. Green Machine Pro® is available in capacities ranging from 1 gallon to 10 gallons. They are both designed for *constant* line pressure and can be installed before a manifold of multiple valves, or after a single valve. They are proportioning, meaning the injection rate is the same from start to finish (200:1 ratio, 200 parts water to 1 part fertilizer or additive).

Add-It® can be installed almost anywhere. However, the inlet and outlet on the Add-It® have to be in the horizontal position. The smaller units, 1 pint up to 3 gallon capacity, are suspended with PVC pipe. The larger 5 and 10 gallon capacity injectors are self-supporting, and require no additional support. The Add-It® is usually plumbed directly into the irrigation system with PVC pipe. Patented.

Because of the innovative design, the new Green Machine Pro® can be installed almost anywhere. That's because it comes with a manifold that can be inserted into any irrigation line either *vertically* or *horizontally*, and from line sizes from 1/2" through 4". Each unit is self-supporting. The manifold is connected to the fertilizer tank with PVC lined, braided flexible stainless steel connectors, making installation extremely quick and easy. Patented.

The concept of operation of both Add-It® and Green Machine Pro® are basically the same. Through a unique hydraulic design, a small amount of water is diverted from the main stream of water flowing through the manifold or tee assembly, and forced into the top of the additive tank. A slight pressure differential is created between the inlet and outlet of each injector. Therefore, a small amount of water is diverted from the mainstream into the top of each tank. Fertilizer is drawn from the bottom of the additive tank. The water coming into the tank is lighter than the fertilizer, and therefore floats on top, making the injection rate constant from start to finish. It's amazing, yet simple! Add-It® and Green Machine Pro® fertilizer injectors allow you to distribute fertilizer uniformly throughout the irrigation system. It is of *particular* benefit to those who use drip and sub-surface irrigation, because an injector is the only means of fertilizing easily, efficiently and economically.

Add-It® and Green Machine Pro® have been designed for use with any brand of liquid fertilizer on the market today, and can also be used with totally water-soluble dry fertilizers, such as Scotts Miracle Gro® and Peters Professional®, Bandini Pro Choice®, Grow More®, and others, when pre-blended with water. 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. Wetting agents can also be added to help breakup compacted soils, micro-nutrients & Vitamin Institute's SUPERthrive™ containing vitamins and hormones for healthier plants, and vitamin B-1 when transplanting trees and shrubs.

The primary advantage of Add-It® and Green Machine Pro®, aside from its ease of use, is the fact that there is no pressure loss and no electricity is required. Add-It® has no moving parts and Green Machine Pro® only one making them extremely reliable. With the many sizes, capacities and configurations Add-It® and Green Machine Pro® are available in, it's easy to see that there are many applications in the agricultural, commercial, greenhouse, golf course, and residential areas where they can be utilized!

Strong Enterprises has four (4) times received recognition from the American Society of Agricultural Engineers (ASAE) for innovative product design. There are currently over 135,000 Add-It® fertilizer injectors already being used by people, just like yourself, who understand the benefits of fertigation.

Strong Enterprises™

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