



Greater Root Zone Control with Low Pressure Irrigation

The main objective of an irrigation system is to provide sufficient and well-timed water to plants, which should be heavily considered when designing an irrigation system. By conserving and using water effectively as possible, each plant's health will be greatly enhanced.

To efficiently irrigate for nursery and greenhouse operations, it is crucial to have a solid understanding of the plant's **root zone**: the soil's ability to hold water and how that affects soil moisture characteristics. Enough water needs to be applied as minimizing water waste because of deep percolation and run-off. Monitoring soil moisture can help determine how much water is found in the soil at different depths of the root zone.

Tips for nursery and greenhouse irrigation include:

- **Group plants according to water needs** - Separate plants that need more water from the others (low water use and deep-rooted zones)
- **Use micro irrigation**
- **Install irrigation and water wisely**
- **Use cyclical irrigation** to apply water in several short cycles so that the water has time to soak into the ground
- **Recycle water**

UNIFORM & LOW PRESSURE IRRIGATION

While there are various methods to achieve these "water efficiency" goals, Senninger Irrigation Inc. recognizes that any irrigation system should deliver water as uniformly, effectively and efficiently as possible. For nursery and greenhouse installations, the needs vary based on whether irrigation is directed toward field grown nursery stock, containers of different sizes, hanging baskets, bedding plants on benches or another greenhouse crop.

Aware that growers are concerned about saving water and energy, Senninger manufacturers several types of irrigation products designed to fit the needs. Many of Senninger's products provide optimum performance at low pressure, reducing the amount of energy required to convey the water to the crop. Selecting products that distribute the right amount of water in a manner suited to the specific soil and plant needs saves precious water.

EFFICIENT IRRIGATION PRODUCTS

Because additional irrigation is needed at certain stages of plant development and root zone requirements, Senninger's **Xcel-Wobbler** is a good choice. First introduced in 1980, the Wobbler technology utilizes a unique off-center rotary action that provides extremely uniform distribution pattern



Senninger's Inverted Micro-Sprinkler



Xcel-Wobbler

over a large area. Constructed entirely of engineering-grade thermoplastics for optimum corrosion resistance, the Xcel-Wobbler produces uniform droplets that resist wind drift, distributing water in a gentle, rain-like pattern. This uniform application improves germination and promotes mature plant growth, encouraging roots to expand throughout moistened soil, absorbing nutrients from a broader area. Xcel-Wobblers also help cool the plants and soil which can increase plant growth.

The most recent Senninger nursery and greenhouse irrigation product is the **Inverted Micro-Sprinkler**. Designed specifically to irrigate in an inverted position



Inverted Micro-Sprinkler

for greenhouses and hoop houses, the micro-sprinkler delivers gentle droplets in a consistent uniform pattern. With excellent water distribution, uniformity—even in single row installations— and multiple connection options to retrofit existing systems, the Inverted Micro-Sprinkler is a great way to utilize micro irrigation techniques.

Visit www.senninger.com to learn more.

Click on www.senninger.com/senninger-products/nursery-greenhouse/ to read more about Senninger's nursery and greenhouse innovative irrigation products.

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