

Important

It is important to make sure you do not exceed the maximum flow for your drip system

To calculate Maximum Flow for a zone, run water with pressure reducer installed from the faucet and note the number of seconds it takes to fill a bucket. Then use this equation:

$$\frac{\text{Bucket size (gallons)}}{\text{Seconds to fill}} \times 3600 \text{ sec/hr} = \text{Flow gph}$$

When designing your system make sure that the total amount of gph of all emitters in your system does not exceed the calculated flow.

A Drip Irrigation System is only as efficient as its timing!

Be sure to set your timer or appropriately

Consider the season –warmer temperatures and less rain will require more irrigation time

Consider the type, size, and age of plant– The water needs of plants vary based on species, size, and stage of development.

Consider current and upcoming weather events– if a rain event is going to occur within a few days, irrigation from system may be postponed.

Maintenance

Maintenance of the system is very simple.

Adjust timer to account for changes in weather and plant growth.

Clean the filter occasionally

Check the system to make sure emitters are not clogged.

Make repairs and clean emitters as necessary.

Winterization is very easy too!

Simply detach the head assembly (timer, backflow preventer, pressure regulator, and filter) and store indoors. Then uncap the drip tubing to allow for drainage and winterization is complete.

WATER CONSERVATION

DRIP IRRIGATION



For more information

Email us with any questions or concerns regarding Drip Irrigation at:

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or

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Save **money** and conserve water by installing a drip irrigation system.

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What is Drip Irrigation

A low pressure irrigation method that slowly applies water directly to a plant's root zone.

Preparing to Install

- First, know your soil texture and the water needs of the plants.
- Apply any soil amendment before installation.
- Finally, purchase drip irrigation materials and begin installation.

Purchasing Materials

Items can be purchased online or at any local Home Improvement Store such as Lowe's or Home Depot.

Installation

1. Connect a **Y-ball valve** to the **faucet**.
2. Then connect a hose end **digital timer** and set the timer based on the needs of the plants and weather conditions.
3. Connect a **backflow preventer** to prevent water and harmful bacteria from flowing back into your drinking water.
4. To that, connect a **pressure regulator** (10-25 psi). This will reduce the pressure and keep it constant .
5. Now you can connect your **drip tubing** and place it throughout your garden and flower beds
6. T-Fittings can be attached to weave your drip tubing through your beds and gardens.
7. Based on plant location, punch holes in the drip tubing and install emitters.



8. Finally, at the end of your drip tubing, place an end cap to stop the flow of water.

Placement of Emitters To Maximize Efficiency

The number of emitters is based on plant size and water requirements

Place the desired emitters at the base of each plant.

Watering Schedule

- Check your system occasionally because it is important not to overwater your plants.
- There should be a wetted area around the base of the plant.
- In clay and loam soils, water plants for longer time intervals and less frequently.
- For sandy soils, water plants more frequently and in shorter time intervals.

