



Drip Irrigation Plan System for 4' Wide Garden Beds

PRODUCT NUMBER 2001

Materials required to connect your system to a hose faucet

If you want to connect your drip system to an existing home hose faucet or to your garden area you will need the materials below to set up your system.

Controller Components, Qty	Description
1	Faucet Y connector with double shut-off ¹
1	Hose end irrigation fitting
1	Pressure Regulator
1	Hose thread backflow preventer
1	3/4" Hose thread adapter
1	1/2" Perma-Loc fitting
1	Standard 9V battery

Notes:

- Allows you to connect your drip system to a hose faucet.
- Battery powered, 7 calendar days, 4' x 4' (This controller will deliver sufficient water to your garden area).
- The pressure regulator reduces the pressure to withstand typical home water pressure.
- Most local water authorities require that a backflow preventer be used to connect to a potable drinking water supply. Check with your local water authority for more information. It is normal for the backflow preventer to be used because the backflow preventer is all water supply.
- The filter is required to prevent sand from entering the system - at least once per season or as needed.
- The swivel adapter is used to connect the system to a hose faucet.

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Step 8 – Install drip tubing

Now we will install the drip tubing.

- Connect a hose cap to the end of the drip lines cut in **Step 7**.
- Connect each line to the faucet fitting in the photo at the right.

Note: If you are installing straight runs of tubing, marking means for square foot grids will hold the tubing down from bowing up. If not, you can use C clamps with nails described on p. 5.

Step 9 – Check your fittings

Before you go any further, we recommend that you check your fittings visually and with your hands.

Step 10 – Test the system

Turn the water on and see what happens. Turn the water off and see what happens. Turn the water on and see what happens. Turn the water off and see what happens. Turn the water on and see what happens. Turn the water off and see what happens.

If you connected to a faucet:

- Make sure the Y connector is properly fitted, NOT in line with the tubing.
- Turn on your faucet.
- Turn on the Y connector valve. Check for leaks. If there are any, turn off the water supply and tighten the fittings (hand tighten only - no tools) and then retest.
- Now turn on the timer with the Manual on control. (Button on the right with the little hand symbol.) Water should be flowing to the rest of your system.

If you connected to an irrigation zone:

Using a manual mode on your irrigation timer, turn on the zone that connects to your garden.

For either water connection method

- Check that there are no leaks at any of the visible fittings. If there are, turn off the water supply and tighten the fittings (hand tighten only - no tools) and then retest.
- Turn the water source off.

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4' x 4'
4' x 8'
4' x 10'

Our drip irrigation systems provide efficient cost effective watering for your raised bed garden with high quality components and straightforward instructions.

This plan can be used to construct drip systems for 4 foot wide by 4', 8' or 10' lengths to create an automatic drip system.



Introduction and notes

Thank you for purchasing this plan from Verdura Culinary Gardens.

Located in Portland, Oregon, Verdura works with area homeowners and businesses to help them set up, plant and maintain raised bed organic vegetable gardens. Because of the popularity of our sturdy, attractive and versatile frames and irrigation systems, we have created a series of plans for do-it-yourselfers and folks who live outside of the Portland metro area and who are unable to have us build gardens for them.

Verdura drip irrigation systems are assembled with 1/2" black commercial grade poly tubing cut to length and high quality screw-on fittings. All materials used in building the system are chosen for their durability and resistance to sun and normal garden wear. This plan is designed to allow connection to a hose bib utilizing a battery-powered digital controller, or to an existing automatic irrigation zone. If you wish to connect to your garden to existing irrigation zone please read the warning on p.12 especially if your existing zone is currently used to water a lawn area.

Included in this plan are:

A list of the tools you will need. Only simple hand tools are required - no power tools are necessary.

A discussion of the materials needed, followed by table listing the materials for three different frame sizes: 4' x 4', 4' x 8', and 4' x 10'. Relevant Item Numbers from Drip Depot are included in each table, for your convenience. We also include a cutting diagram for the tubing for each size frame.

Step-by-step instructions, including photos, to guide you through the assembly process. We recommend that you read the detailed instructions through before starting, to have a better idea of the scope of the entire project. The drip systems are actually quite easy to build and will reward you with many years of easy gardening and very efficient watering. Good luck with your project, and be sure to check out other Verdura plans for [frames](#), [planting plans](#), and [trellises](#).

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