

100' Soaker System

This soaker system is ideal for using in vegetable or ornamental gardens or around shrubs and trees because it slowly and evenly soaks the ground at an optimum rate of about 20 gallons per hour per 100'. It can be left on top of the ground, buried or placed under a layer of mulch.

The starter system contains the following parts:

- 1/4" × 100' soaker hose
- 1/2" × 50' poly header hose
- one 25 psi pressure regulator
- one hose/faucet connector
- one 1/2" T-connector
- two 1/2" compression ends
- ten 1/4" straight connectors
- twenty 1/4" hole plugs
- ten galvanized stakes
- one hole punch

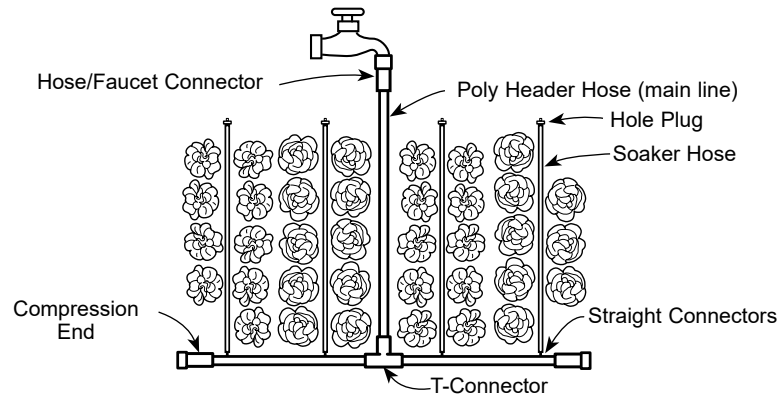


Figure 1: Square configuration.

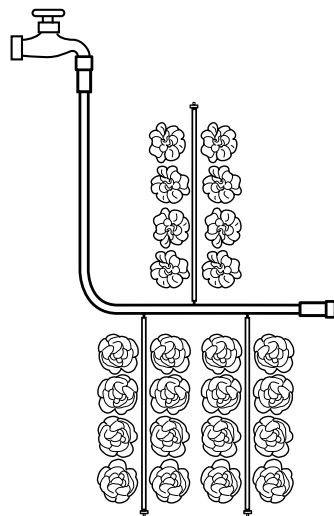


Figure 2: Long & narrow configuration.

This system has been designed for maximum flexibility. As such, there is no recommended layout configuration. You can cut and configure the pieces to best suit your situation. Extra parts are available if you want to expand the system. The following are guidelines.

- The poly header hose is the main water-supply line. Attach one end of this hose to the faucet connector and the other end to an end connector (or a T-connector). The header hose can be cut to make a T-shape using the T-connector.
- The soaker hose is connected to the header hose with the 1/4" straight connectors. Determine where you want to have the soaker hoses positioned. (*Note: If you are putting straight connectors opposite each other, they need to be slightly offset so they don't interfere with each other.*) Use the hole punch to make a hole in the poly header hose and insert a 1/4" straight connector into the header hose. Attach the soaker hose to this connector in the header hose. Put a hole plug in the other end of the soaker hose to prevent the water from running out. If you need to run the system at pressures higher than 25 psi, you will need to fold over and tie the end of the soaker hose, as the higher pressure may make the plug come loose. Multiple soaker hoses can be attached to the header hose.
- To prevent the line from being overpressurized, and the fittings from blowing out, always use the pressure regulator on the line. You can leave it off if the pressure is always below 25 psi, such as when the water comes from a raised water barrel.
- The soaker hose should be placed as close as possible to the plants you want to water. If you are planting through a weed barrier you should put the soaker hoses in place first and then place the weed barrier down and carefully plant through it without damaging the soaker hoses. If you are trying to water an entire area, please keep in mind that the spacing of the hoses depends on the type of soil. A very sandy soil will require closer spacing because the water travels mostly straight down. A clay or highly organic soil (high in peat or compost), however, will wick the water horizontally as well as vertically. Experimentation will determine the optimal spacing of the hoses. Usually 2' spacing in sandy soil and 4' spacing in clay soil or highly organic soil will be sufficient.
- By sloping the installation of the header hose, the water will always drain into the soaker hoses.

- The soaker system should be used only with clean water. Your local climate, hard water and unfiltered rainwater will affect the overall durability of the soaker hose; however, with proper care, the 1/4" inside diameter soaker hose should withstand up to five years of use. The soaker hose will last longer and operate more effectively if a filter or filter washer is installed at the faucet. To keep the pores clear of debris, flush the system at a higher pressure at least twice a year.
- Although frost will not damage the soaker hose, it is recommended that you drain the header hose and remove the header hose's end connector before frost hits.

Parts to Expand the System

- XC251** 1/2" × 50' Poly Header Hose
- XC325** 1/4" × 100' Soaker Hose
- XC307** 1/4" × 50' Poly Feeder Tube
- XC235** 1/4" Straight Connectors (10)
- XC230** 1/2" Straight Connectors (10)
- XC234** 1/2" T-Connectors (5)
- XC236** 1/2" Elbow Connectors (5)
- XC231** 1/2" Compression Ends (5)
- XC337** 8" Galvanized Stakes (10)
- XC237** Hose/Faucet Connector, ea.
- XC312** 25 psi Pressure Regulator, ea.
- XB827** Hole Plugs (20)