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dripworks.com

MEDIUM

ROW CROP IRRIGATION KIT

MANUAL



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INTRODUCTION



Welcome to the world of efficient and hassle-free irrigation with DripWorks' Drip Tape Row Crop Irrigation Kits. Whether you're a commercial farmer or a backyard gardener, drip tape irrigation has long been favored for its ability to efficiently water long rows and garden beds.

At DripWorks, we're excited to introduce our new line of Drip Tape Row Crop Irrigation Kits, designed to meet the diverse needs of growers like you.



ALL ABOUT YOUR KIT



Meets the demands of medium-sized plots, providing efficient irrigation for up to 20 100-foot rows or approximately 1/8 acre of land. Featuring 2,000 feet of 15 mil low-flow drip tape,

Features

- 2,000' of Drip Tape
- Filter and PSI Regulator
- 1/2" and Drip Tape Fittings
- Punch and Hold Down Stakes
- 100' of 1/2" Mainline Tubing



PARTS LIST

MEDIUM

- 2 - 1,000' Rolls Low-Flow Drip Tape ([TAZ1508LSR](#))
- 1 - 100' Roll 1/2" Mainline Tubing ([12100](#))
- 1 - Home Garden Filter ([FYCH200](#))
- 2 - 1/2" Easy Loc Female Hose Beginnings ([ELFH](#))
- 2 - 1/2" Easy Loc Couplers ([ELC](#))
- 2 - 1/2" Easy Loc End Caps ([ELMC](#))
- 20 - Drip Tape Row Starts ([LSB](#))
- 20 - Drip Tape End Plug ([LSPLUG](#))
- 3 - Drip Tape Couplers ([LSC](#))
- 10 - 1/4" Goof Plugs 1 x 10 pack ([14GP2-10](#))
- 1 - Punch Tool ([PUPUR](#))
- 100 - 1/2" Hold Downs - 1 x 100 pack ([SUHD-100](#))



Without Timer:

- 1 - High Flow Hose Y (HYVHPL)
- 1 - 10 PSI Pressure Regulator (PRSG10)

With Timer:

- 1 - Galcon Bluetooth Flip Open LCD Timer (TGNLIDBT)
- 1 - Galcon Alternator Valve (TGNALT)
- 2 - 10 PSI Pressure Regulator (PRSG10)

BEFORE YOU START

Drip tape is ideal for straight, flat rows. **The only tools required are a pair of scissors or pruners.**

- The pressure regulator in this kit requires a minimum 0.5 GPM (30 GPH) to regulate the water pressure to the 10 PSI needed for the drip tape
- Use at least 150' of drip tape in your system to meet this minimum flow rate (Using less may cause leaking at fittings and possibly damage the drip tape)
- Requires a minimum flow rate of 4 GPM and a maximum 6 GPM (if automated medium kit)
- The maximum amount of drip tape per zone is 1,200'



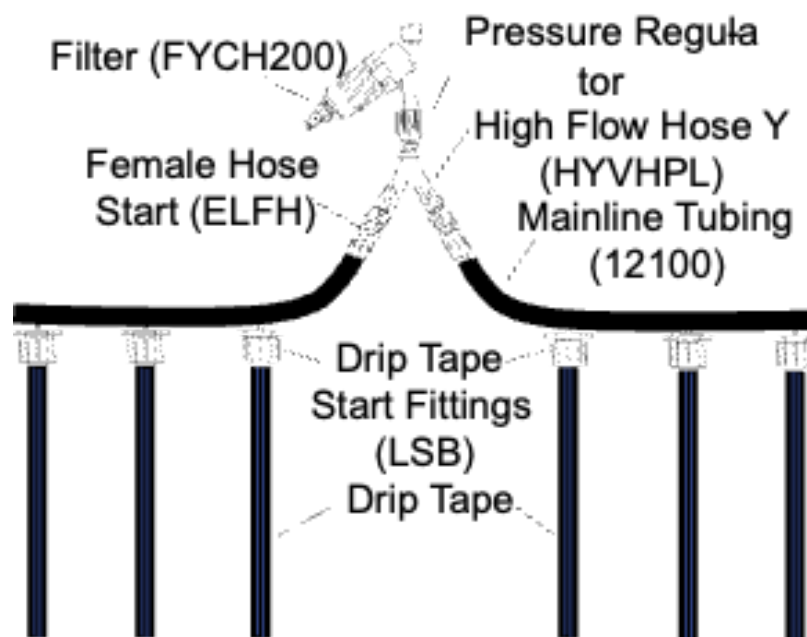
INSTALLATION

WITHOUT TIMER (KDT2)

System Start & Additional Parts

This portion of the kit includes the filter, pressure regulator, a hose Y, two hose start fittings, two repair couplers, end fittings, goof plugs, hold down stakes, and a roll of mainline tubing.

- Connect the swivel end of the filter (FYCH200) to your faucet or any male hose thread.
- Connect the pressure regulator (PRSG10) to the filter outlet.
- Connect the pressure regulator outlet to the high flow hose Y (HYVHPL).
- Connect the barbed ends of the female hose starts (ELFH) to the mainline.
- Connect the female hose starts to the hose Y.
- Unroll the mainline tubing (12100) through the area to be watered.
- Close the mainline tubing with an end fitting (ELMC).
- Secure the tubing with hold down stakes (SUHD-100).



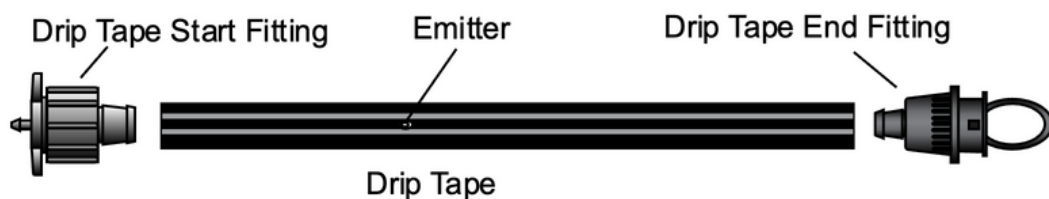
INSTALLATION

WITHOUT TIMER (KDT2)

Drip Tape

The KDT2 Kit comes with two 1000' rolls of low-flow Toro Aqua-Traxx drip tape. In addition to the drip tape, this portion of the kit includes a punch, drip tape start and end fittings, and three drip tape couplers.

- Use the punch to make holes in the mainline where each row of drip tape will begin.
- Lay the drip tape (TAZ1508LSR) out—striped side up—where desired, making sure that one end reaches the mainline tubing.
- Attach the large barbed end of a drip tape start fitting (LSB) to each length of drip tape and turn the start fitting's locking collar clockwise to *tighten.
- Insert the small barbed ends of the drip tape start fittings into the punched holes.
- Close each length of drip tape with a drip tape end fitting (LSPLUG).
- Open one side of the hose Y, turn the water on, and check to be sure all lines are working.



***Some leakage may occur out of the drip tape start fittings. A quarter turn with pliers will tighten the locking collar.**

Run one watering zone at a time. Install a timer at the faucet and replace the Hose Y with a Galcon Alternator Valve (TGNALT) to automate these two zones. For further zoning, install a Header Kit (KHA12).

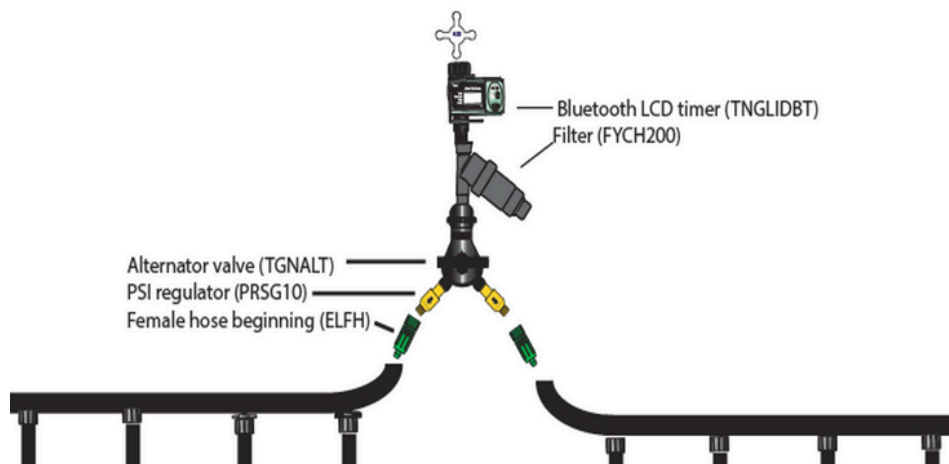
INSTALLATION

WITH TIMER (KDT2-T)

System Start & Additional Parts

This portion of the kit includes the Galcon Bluetooth Timer, filter, pressure regulator (2), a Galcon Alternator Valve, hose start fittings (2), repair couplers, end fittings, goof plugs, hold-down stakes, and a roll of mainline tubing.

- Connect the swivel end of the timer (TGNLIDBT) to your faucet or any male hose thread.
- Connect the swivel end of the filter (FYCH200) to your timer (TGNLIDBT).
- Connect the swivel end of the Galcon Alternator Valve (TGNALT) to the outlet side of the filter (FYCH200).
- Connect the pressure regulators (PRSG10) to the Galcon Alternator (TGNALT) outlets.
- Connect the barbed ends of the female hose starts (ELFH) to the mainline.
- Connect the female hose starts (ELFH) to the pressure regulator (PRSG10).
- Unroll the mainline tubing (12100) through the area to be watered.
- Close the mainline tubing with an end fitting (ELMC).
- Secure the tubing with hold down stakes (SUHD-100).



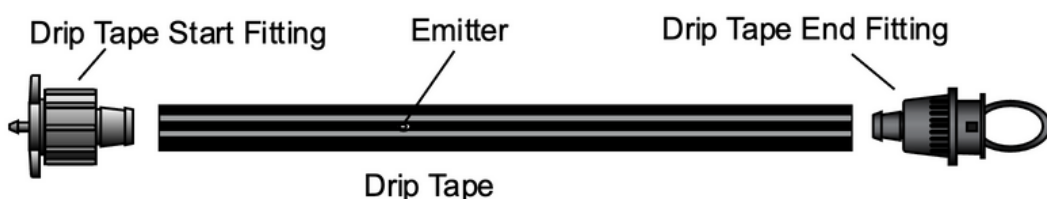
INSTALLATION

WITH TIMER (KDT2-T)

Drip Tape

The KDT2-T Kit comes with two 1000' rolls of low-flow Toro Aqua-Traxx drip tape. In addition to the drip tape, this portion of the kit includes a punch, drip tape start and end fittings, and three drip tape couplers.

- Use the punch to make holes in the mainline where each row of drip tape will begin.
- Lay the drip tape (TAZ1508LSR) out—striped side up—where desired, making sure that one end reaches the mainline tubing.
- Attach the large, barbed end of a drip tape start fitting (LSB) to each length of drip tape and turn the start fitting's locking collar clockwise to *tighten.
- Insert the small, barbed ends of the drip tape start fittings into the punched holes.
- Close each length of drip tape with a drip tape end fitting (LSPLUG).
- Open one side of the hose Y, turn the water on, and check to be sure all lines are working.



***Some leakage may occur out of the drip tape start fittings. A quarter turn with pliers will tighten the locking collar.**

Run one watering zone at a time. The Galcon Bluetooth timer (TNGLIBT) and Galcon Alternator Valve (TGNALT) will automate these two zones.

GROWING TIPS & TRICKS

01 Proper Spacing

Ensure adequate spacing between plants to prevent overcrowding, which can lead to competition for resources and increased susceptibility to pests and diseases.

02 Mulching

Apply mulch around plants to help retain soil moisture, suppress weed growth, and regulate soil temperature. Organic mulches like straw or compost can also improve soil structure and fertility over time.



GROWING TIPS & TRICKS

03 Soil Moisture

Check soil moisture levels to ensure plants receive adequate hydration. Use a moisture meter or dig a small hole near the root zone to assess soil moisture content

04 Crop Rotation

Practice crop rotation to prevent the buildup of pests and diseases in the soil. Rotate crops annually to different areas of the garden or field to maintain soil health and reduce the risk of soil-borne pathogens



BEST CROPS

FOR YOUR IRRIGATION KIT



Tomatoes

Tomatoes thrive with consistent and controlled watering. Ensure proper spacing between plants to allow for adequate airflow and prevent disease

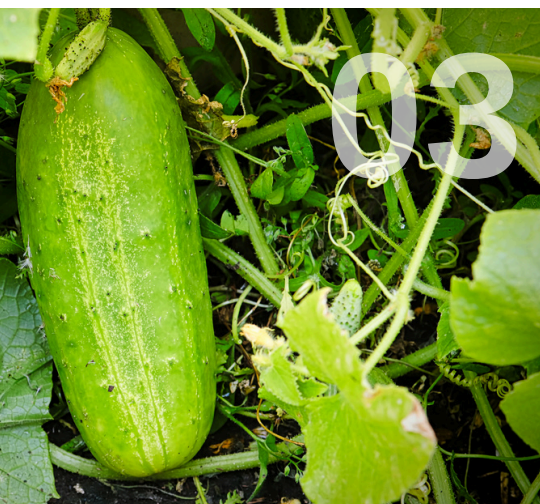
Peppers

Peppers benefit from regular and uniform moisture levels provided by drip irrigation. Plant them in well-drained soil and avoid overwatering to prevent root rot.



Cucumbers

Cucumbers are susceptible to fungal diseases if leaves remain wet for prolonged periods. Drip irrigation helps keep the soil consistently moist while minimizing foliage moisture, promoting healthier plants and higher yields



BEST CROPS

FOR YOUR IRRIGATION KIT



Zucchini & Squash

These varieties appreciate consistent moisture throughout their growing season. Your row crop kit reduces the risk of powdery mildew and other fungal infections common in squash.

Leafy Greens

Leafy greens like lettuce, spinach, and kale thrive in well-drained soil with the even moisture levels that drip irrigation provides.

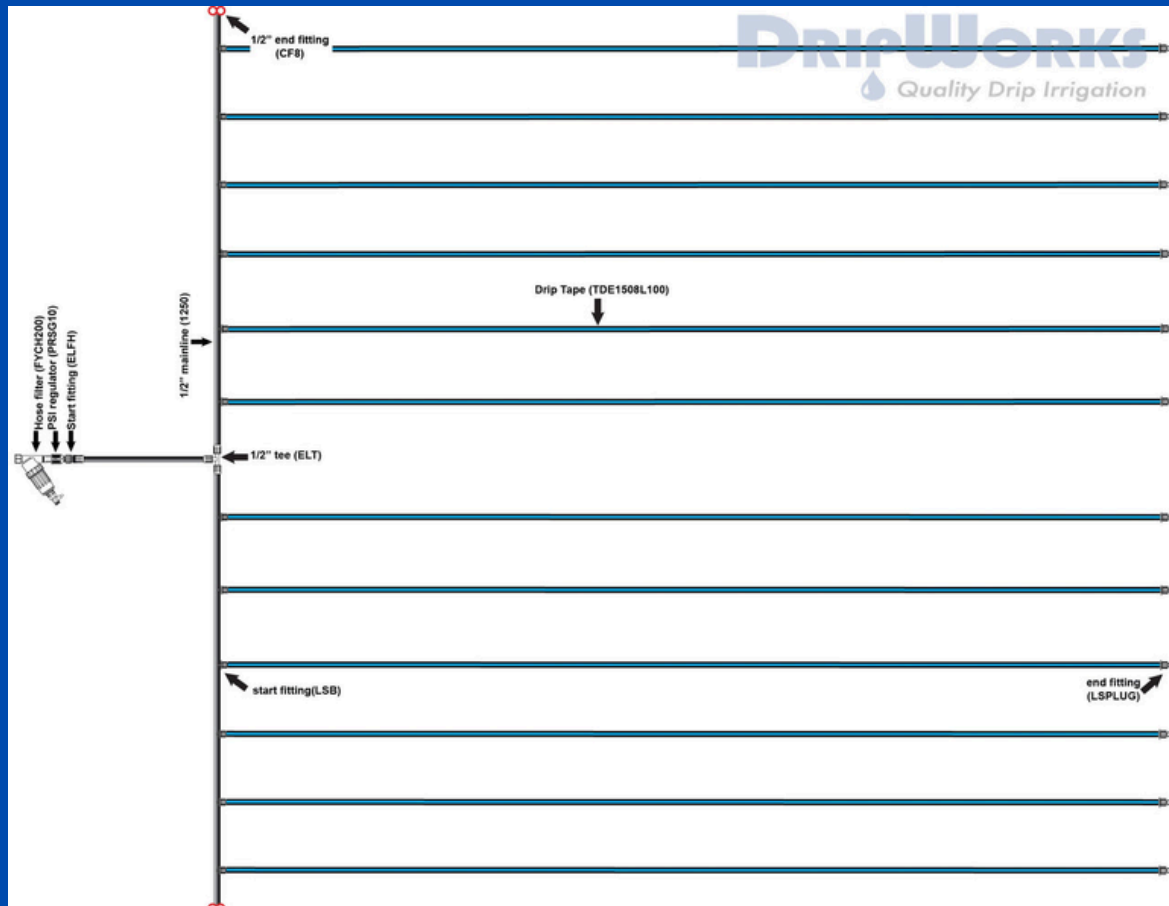


**LEARN MORE
GROW MORE**

dripworks.com/blog

GALLERY OF PLANS

PLAN 1



Approximate water usage for plan: 57.6 GPH

Row crop garden for a Small High-Tunnel (20' x 24') using Drip Tape (TDE1508L100) 8" OC.

This plan is for a 12 rows at 24 feet long of traditional row crops. It uses our 15 mil Low-Flow Drip Tape with emitters spaced 8" on center.

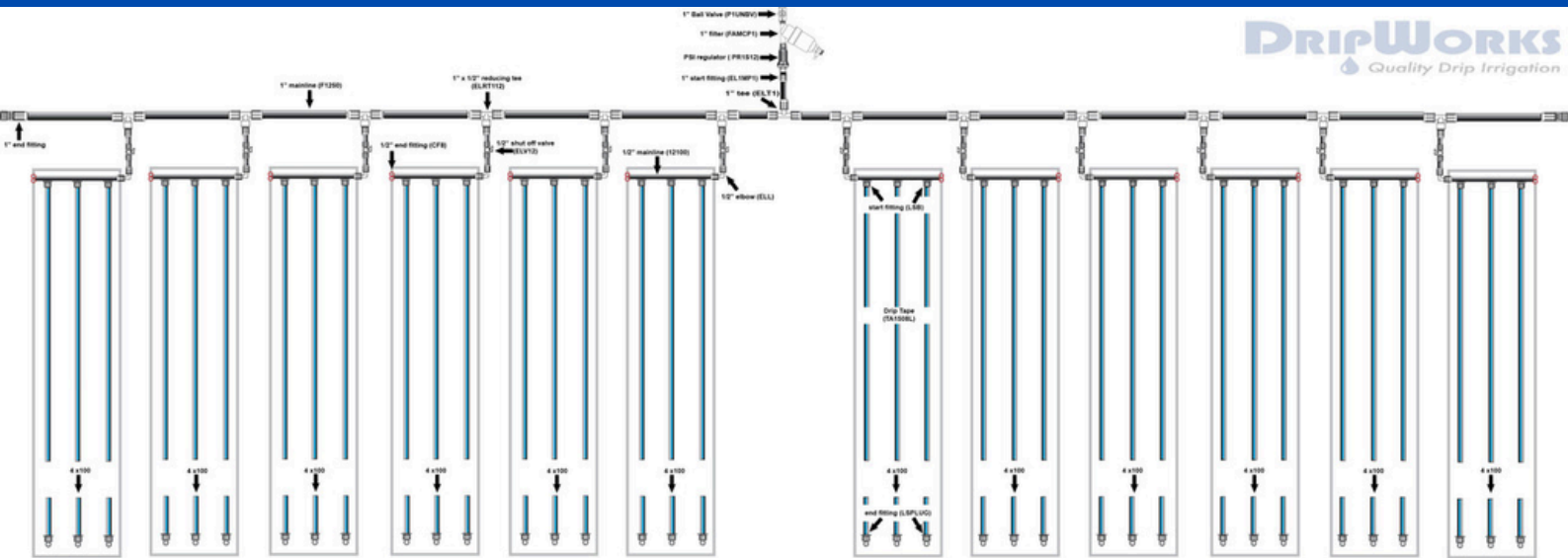
Replace LSB with LSBSO for individual row shut-off. System layout NOT to scale. This layout was made to work with our 20' x 24' high tunnel.

[MORE INFO HERE](#)

[ACCESS ALL PLANS HERE](#)

GALLERY OF PLANS

PLAN 2



Approximate water usage for plan: 780 GPH

Row crop garden beds framed and raised 4' X100' (13) low flow Tape (TAZ1508L) 8" OC.

This plan is for 13 framed and raised beds 4' X 100'. It uses our 15 mil low flow Drip Tape (TAZ1508L) with emitters spaced 8" OC.

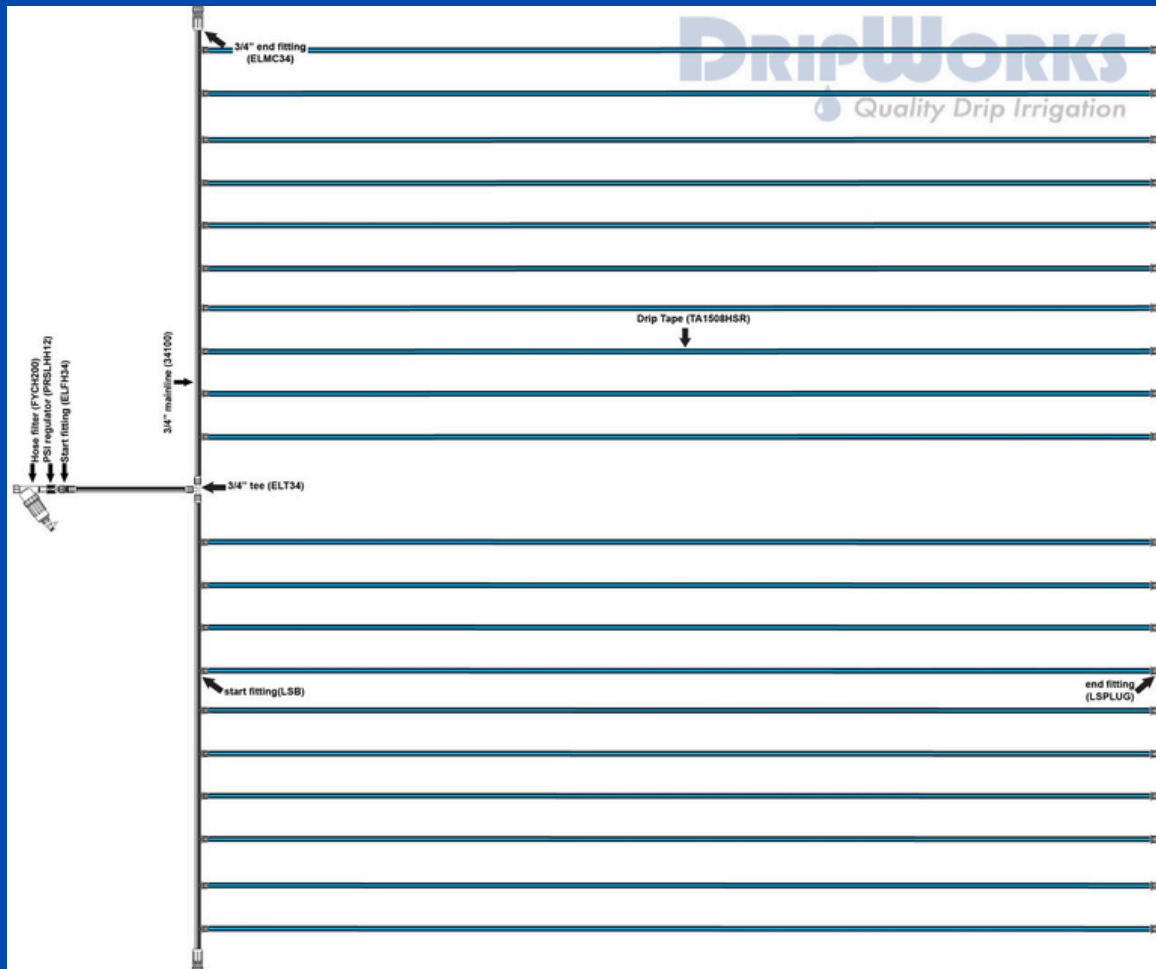
Assumes 15 GPM and clean pre-filtered water. Plan NOT to scale. Beds are 4' x 100'. Similar size beds could use this layout. If flow is not sufficient, isolate with valves.

[MORE INFO HERE](#)

[ACCESS ALL PLANS HERE](#)

GALLERY OF PLANS

PLAN 3



Approximate water usage for plan: 480 GPH

Row crop setup for Large High Tunnel (30'X '60') using Drip Tape (TAZ1508HSR) 8" OC.

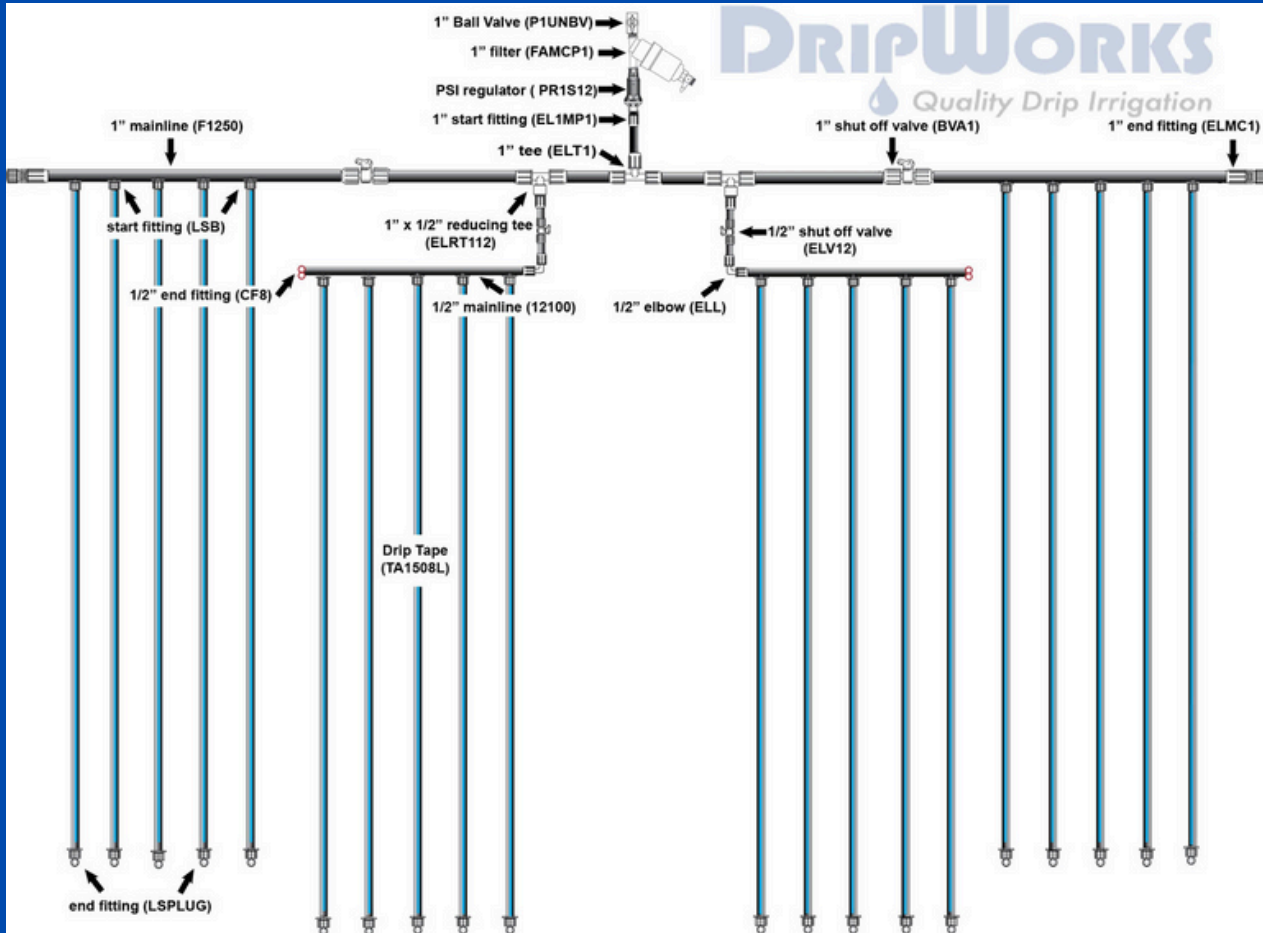
This plan is for a Large High Tunnel setup. It uses 15 mil high-flow Drip Tape (TAZ1508HSR) with emitters spaced at 8" OC.

20 rows 60ft long similar variations may work. Plan not to scale.

[MORE INFO HERE](#)

GALLERY OF PLANS

PLAN 4



Approximate water usage for plan: 800.00 GPH

Row crop garden with 20 rows at 200 feet long (4 zones) using Drip Tape (TAZ1508L) 8" OC.

This plan is for a small field of row crops divided into 4 watering zones each zone water usage is 200 GPH. It uses our 15 mil low-flow Drip Tape (TAZ1508L) with emitters spaced 8" OC.

Assumes water is pre-filtered if not city water. 13.33 GPM approximate water usage for this plan. Plan layout is not to scale.

[MORE INFO HERE](#)



CONTACT

If you have any other questions about our products or about installing your drip system, please contact us!



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