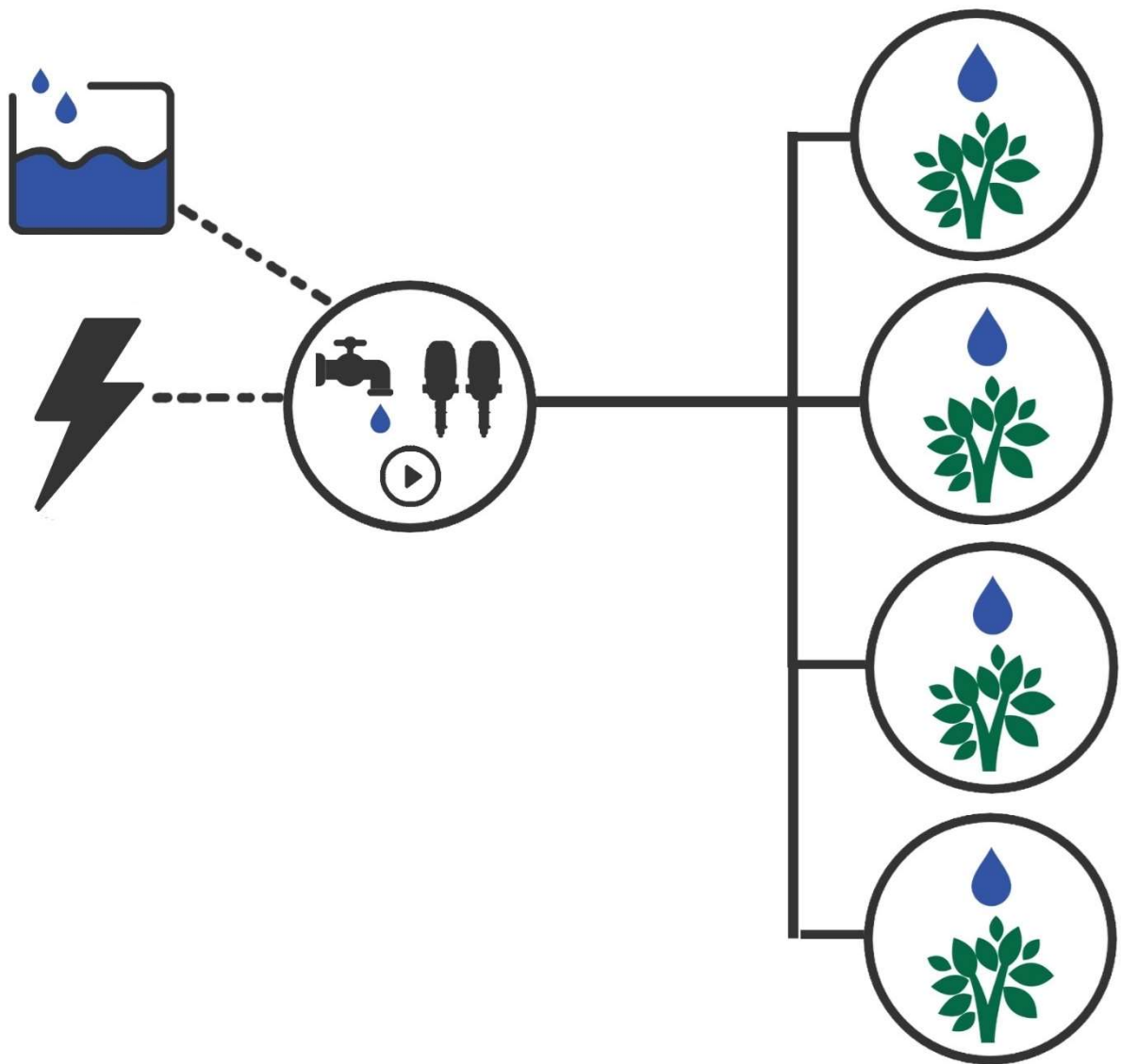




GHL Professional Power and Watering Set

item GHL : 400-150-02000



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GENERAL OPERATION

The feeding and watering set includes parts for supplying water from a pond (basin not included), injecting fertilizer and controlling irrigation (timer). Before installation, ensure you have a sufficient water source to supply the system.

TECHNICAL SPECIFICATIONS OF THE COMPLETE SYSTEM

- Required electricity source : 120 Volts
- Water inlet diameter : 3/4" FHT
- System water flow : depending on the number of installed drippers operating at the same time (2 liters/hour per dripper)
- Good operating flow rate for injectors : 0,088 - 11 gpm (20-2500 L/h)
- Dripper operating pressure : 14,5-45 PSI, optimal 35 PSI (1,0-3,0 bar, optimal 2,0 bar)
- Dripper closing pressure: 1,74 PSI (0,12 bar)
- Filtration fineness to be respected : minimum 120 mesh (130 microns)

PUMP-INJECTOR-TIMER FEED ASSEMBLY :

Description



Part of a professional irrigation system including: set of parts for water supply from a basin (basin not included), fertilizer injection stations and irrigation control (timer). Installed at the start of the system.

Included :

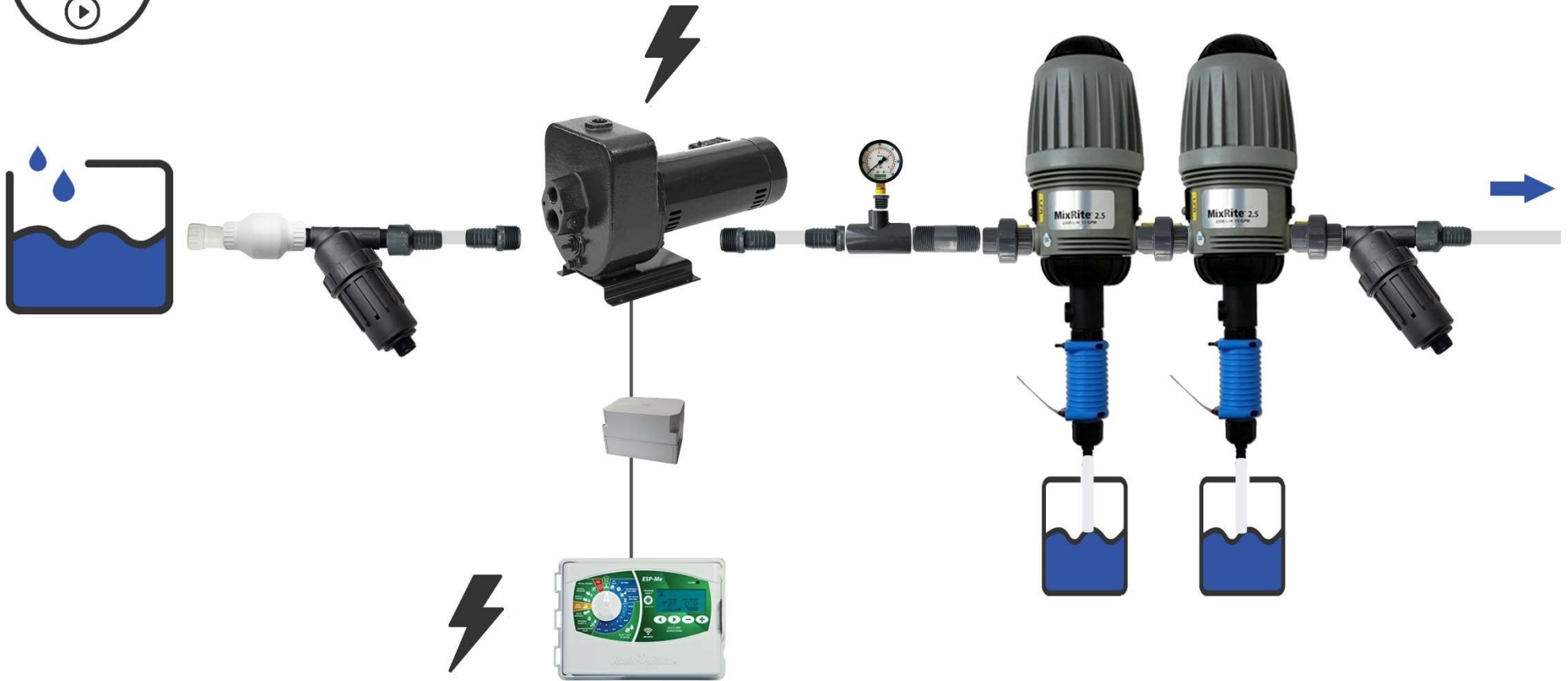
- 1 female adapter for 3/4" FHT garden hose
- 1 check valve
- 1 pump 5gpm 30PSI 3/4FPT
- 2 filters
- 2 proportional injectors with wall mount brackets and replacement O-ring sets
- 1 timer (Rainbird 1 to 4 zone controller)
- 1 electrical contactor (in a box) for pump starting
- 15 meters of 18/2 electrical wire
- Other fittings, collars, electrical wire and Teflon tape

Not included :

- Water source reservoir (basin)
- Fertilizer tanks (under the injectors), example: 20L buckets
- 9V battery (for timer in case of failure)
- Screwdriver
- Polyethylene pipe (you must use the one from the distribution kit)



Installation



Use the polyethylene pipe (from the distribution assembly) to connect the pump with the filters. Use a flat screwdriver to tighten the collars and add "Teflon" tape between the screwed parts. Connect the pump and timer to the power supply. (a 9V battery, not included, can be added to the timer)



DISTRIBUTION SET (500 DRIPPERS) :

Description



Part of a professional irrigation system including: set of parts for watering up to 500 plants with a flow rate of 2 liters / hour / dripper.
Several possible arrangements: 1 to 11 rows.

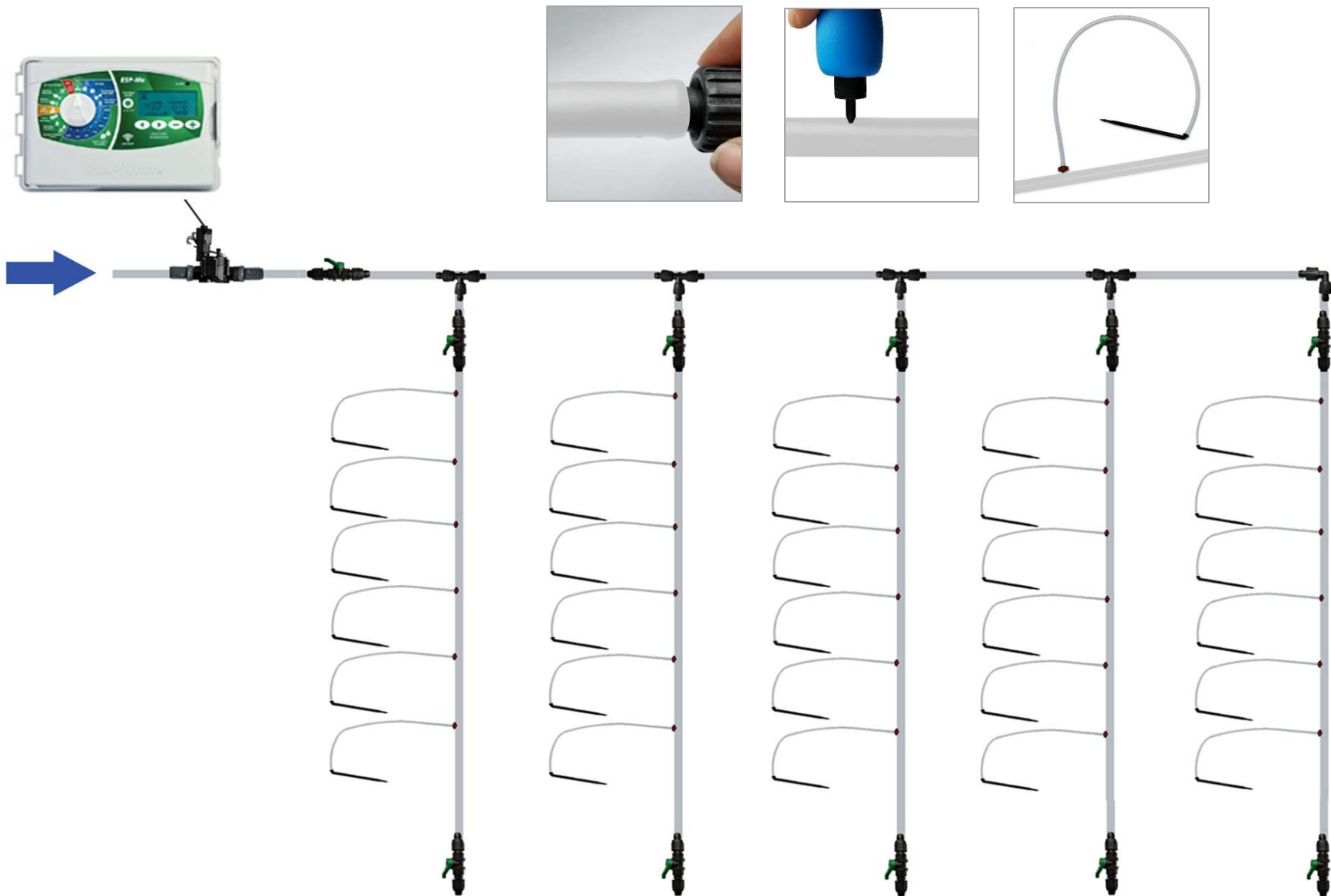
Included :

- 500' of 3/4" polyethylene pipe
- 1000' of microtube
- 500 drippers 2 liters/hour (0.5 gallons/hour)
- 500 angle stakes
- 10 T fittings
- 10 elbows
- 2 unions
- 21 mini-valves
- 2 female adapters for garden hose
- 2 caps
- 1 electric valve
- 15 meters of 18/2 electrical wire
- Punch, fittings, collars and Teflon tape



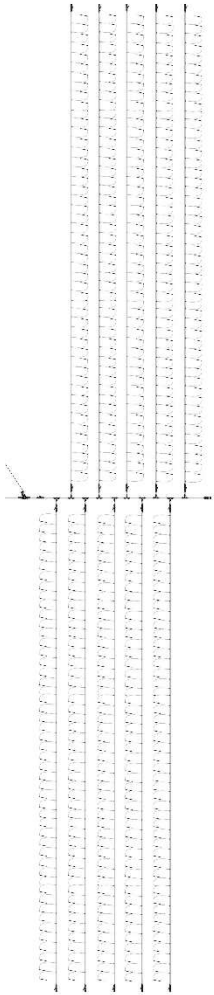
Installation

Several arrangements are possible. Use the parts to shape the system for your location. An electric valve connected to the timer must be installed at the start of the zone.

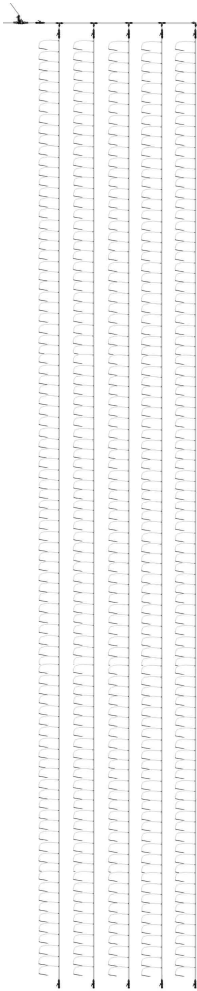


Examples of 1 zone layouts (500 drippers)

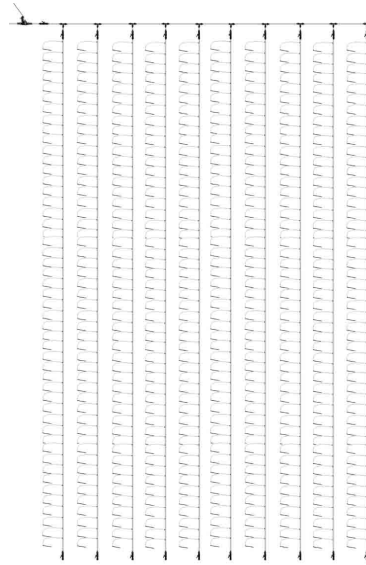
**10 rows
(5 each side) :**



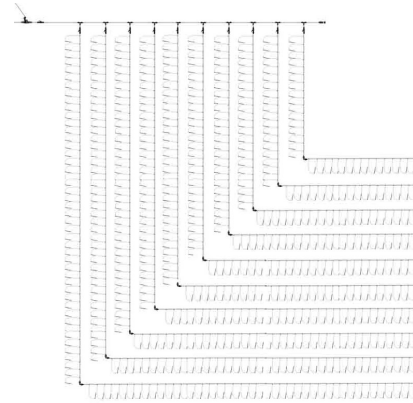
5 rows :



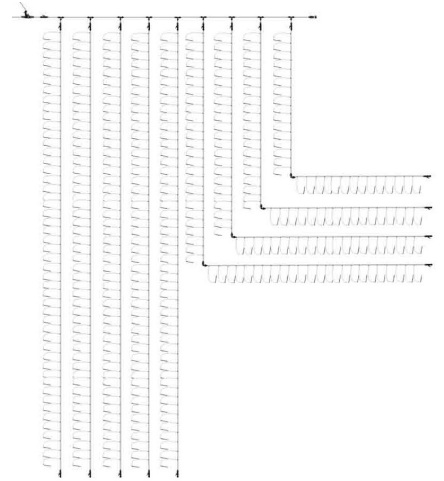
10 rows :



10 rows with elbow :

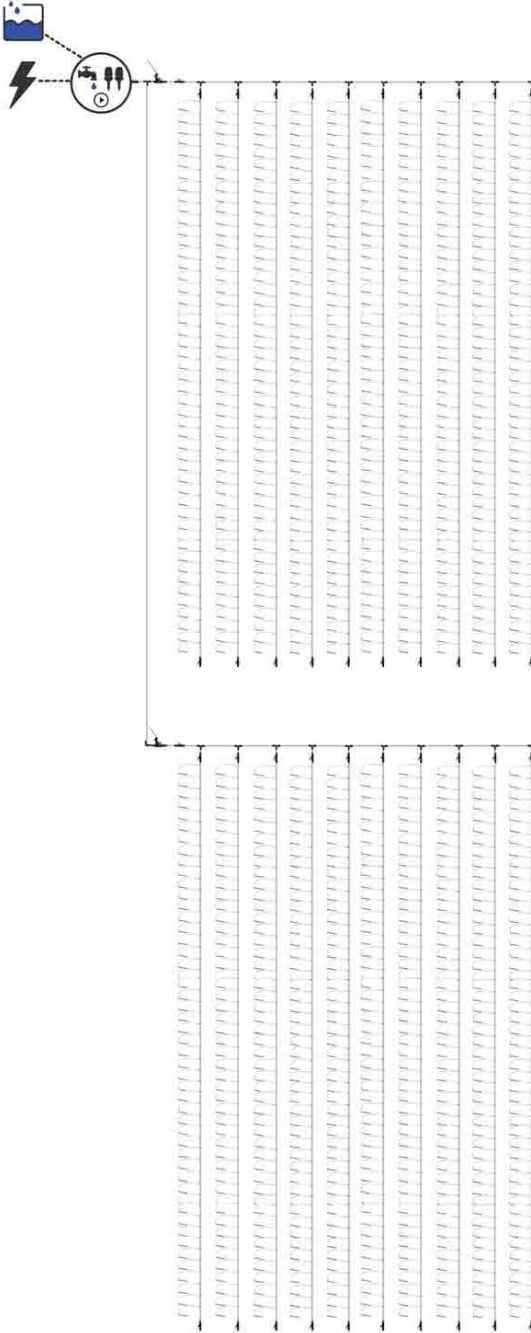


**10 rowss
(straight with elbows) :**

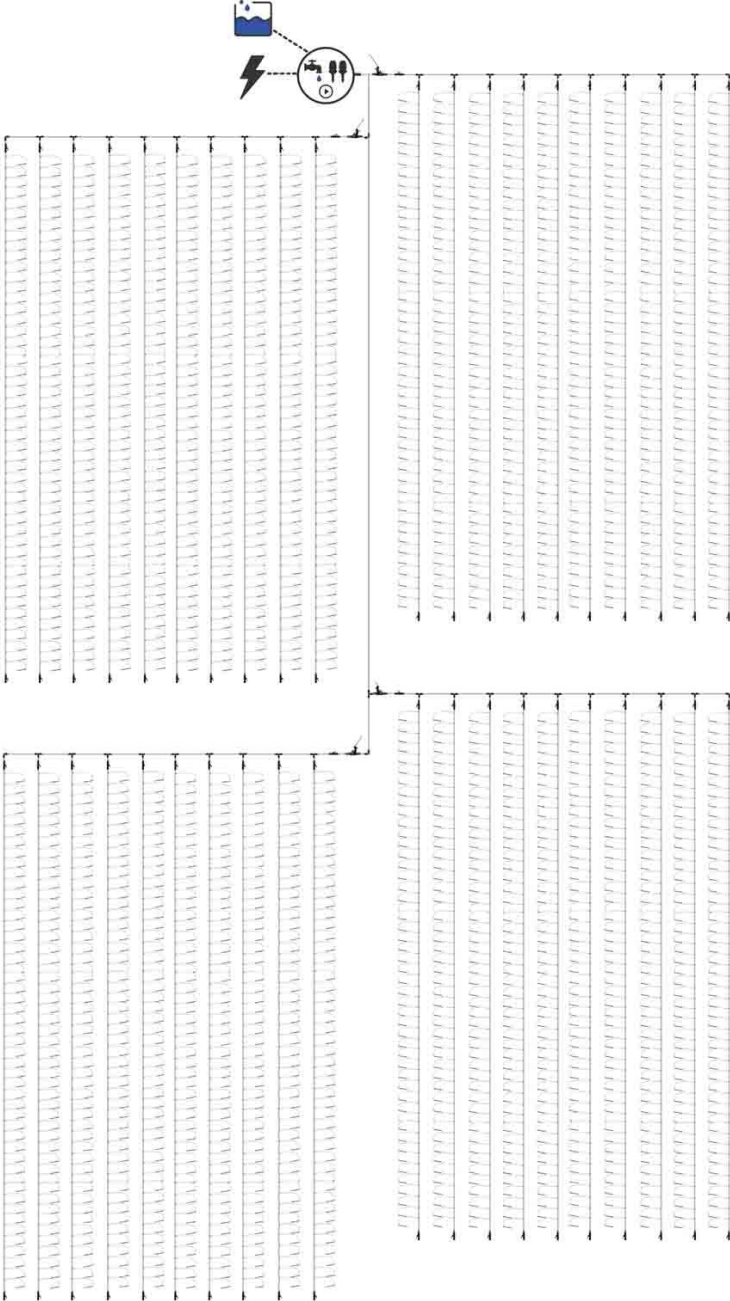


Examples of 2 to 4 zone layouts (1000 to 4000 drippers):

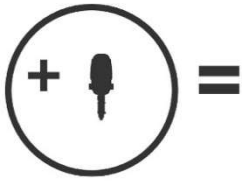
2 zones (2 x 10 rows) = 1000 drippers:



4 zones (4 x 10 rows) = 4000 drippers:



(OPTIONAL) 1 INJECTOR SET (ACID) :



Description

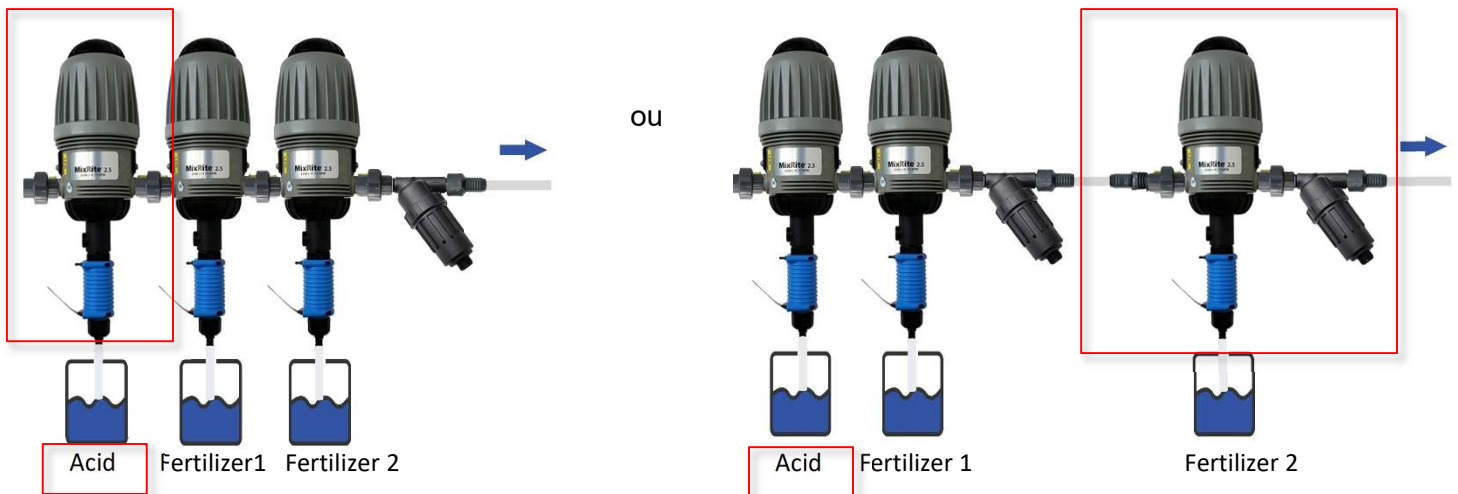
Set of parts for adding a fertilizer or acid injection station (low concentration, <10% for most types of acids) to an existing irrigation system. A 3rd injector is usually used for adding acid to the water to lower the pH. It is recommended to install the acid injector before the fertilizer injectors

Included :

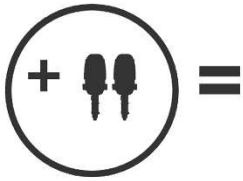
- 1 proportional injector
- 1 filter
- Teflon fittings, collars and tape

Installation

An additional injector can be added directly following the 2 existing injectors or elsewhere in the system.



(OPTIONAL) SET OF 2 INJECTORS (2ND FERTILIZER STATION)



Description

Set of parts for adding a fertilizer injection station. It is usually installed to fertilize another crop in a different area.

Include :

- 2 proportional injectors
- 1 filter
- Teflon fittings, collars and tape

Installation

Use a "T" to install a 2nd fertilizer injection station before the 1st fertilizer station.

Note: If acid is added to the system to lower the pH, the acid injector must be installed before the injection stations.

