

FERTMASTER

*Computerized fertigation control system
accurately delivering nutrients to your
crops.*



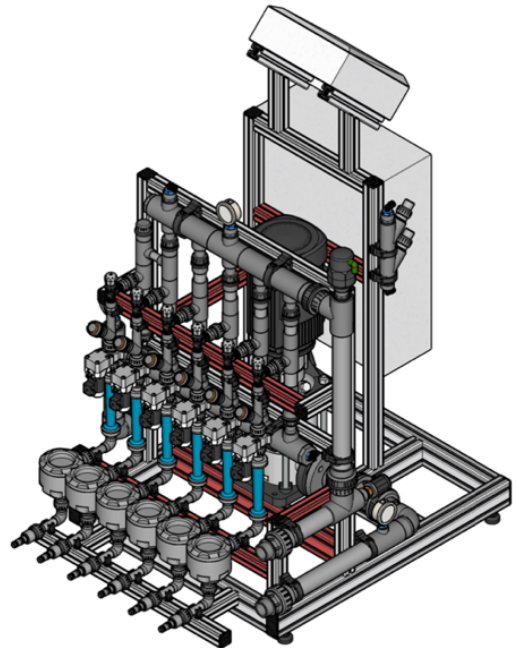
The **FERTMASTER** has accurate EC and pH control which has become a major factor of modern nutrition systems.

Soil-less cultures and even open field farming nowadays require a good control of the electro conductivity and the acidity of the irrigated water, that's what the **FERTMASTER** was designed for.

It is a highly efficient tool as it is capable of handling up to 6 injectors, 1 booster pump, 1 main valve/water pump which alternatively can be replaced by an agitator.

The system can read

- 1 water meter
- 6 fertiliser metres as digital inputs
- 1 EC analogue sensor
- 1 pH analogue sensor



The system is available in two forms:

The unit functions as a slave with the DREAM 2 irrigation controller. In this case, a single DREAM 2 may control several FERTMASTER units loading them with the requirements through serial communication returning data of the process on a real time basis.

Software tools simplify the process of setting up and adjusting the nutrition system. Tools for the automatic calibration and measuring of important system parameters such as the actual flow of the injectors and the control system latency is included. The system latency expresses the delay between injection and sensing of the results by the sensors as it happens in the specific system.

Safety and protection:

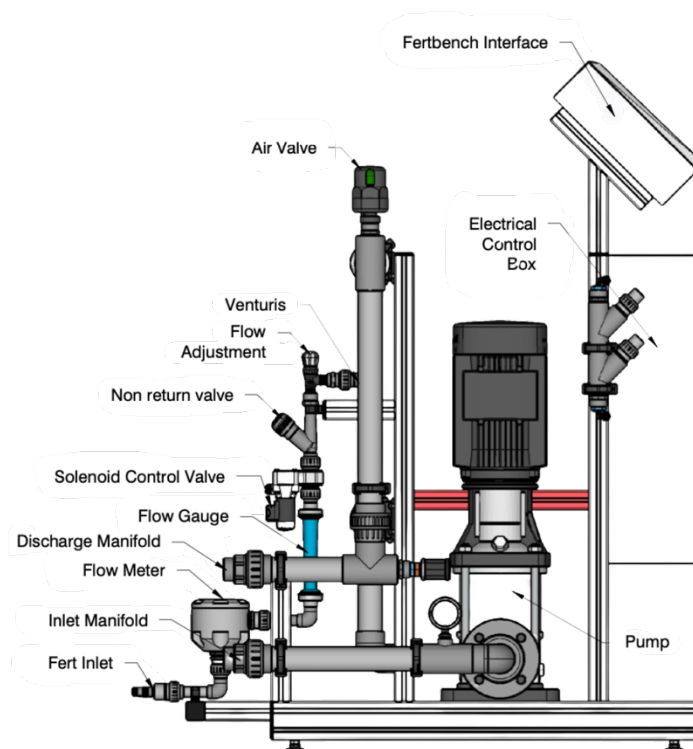
The injection process is safely guarded by the protection mechanisms, never allowing the concentration of the fertilisers to exceed the predefined limits, and if the desired EC or pH cannot be maintained within the permitted limits the appropriate preventative steps are taken.

Fast and smooth convergence:

In order to reach a fast and accurate convergence to the desired set-points each new process takes into consideration the results of the last time of activation of the specific formula.

Flexible injector's function setting:

Each of the injectors in use can be set either for EC controlled injection, for pH-controlled injection or for proportional injection of nutrients independent of the EC and pH control. In the last option, the amount injected can be limited according to user definition.



Optional outputs:

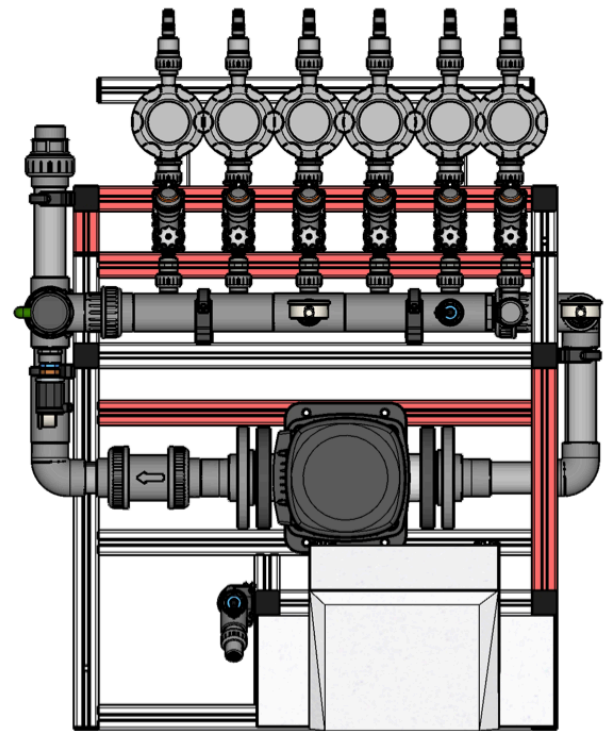
- Up to six fertiliser injectors
- 1 booster pump
- 1 main valve/ water pump
- 1 agitator in place of the main valve
- 3 alarm outputs [in standalone mode]

Dry contact inputs:

- Up to 6 fertiliser metres
- Optional one water metre
- 8 selection contacts [in standalone mode]

Analogue inputs:

- 1 EC sensor
- 1 pH sensor
- 1 PT100 temperature sensor





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