

PRODUCT DATASHEET

ferti
8000

maher
smart

Fertigation equipment



maher
Smart Agrocontrollers



The fertigation unit is renowned for its **reliability, adaptability and easy handling.**

CUSTOM MANUFACTURING ☒

Fertigation systems **are custom-made** according to the specifications of each project.

Minimum specifications required for its preparation:

- 1- Supply network specifications: voltage and frequency
- 2- Maximum fertilizer injection flow
- 3- Head working pressure
- 4- Number of fertilizers to be injected / Acid control
- 5- Number of irrigation valves to control
- 6- Installation pumps and their powers
- 7- Other special features of the installation

MAIN FEATURES ☒

It has a **FERTI 8000** or **MAHER SMART** irrigation controller built in



**Ferti
8000**

What does FERTI 8000 control?

- 1- Irrigation
- 2- Pumping
- 3- Fertilization with pH and EC control, proportional, by time, by volume, and fixed.
- 4- Fertilizer agitation
- 5- Filter cleaning
- 6- Mix of 2 waters (optional)



**maher
smart**

What does MAHER SMART control?

- 1- Window control
- 2- Shading screen control/ Thermal screen control
- 3- V.P.D. control
- 4- Fogging control

+ everything the FERTI 8000 controls

*It is recommended to read the FERTI 8000 and MAHER SMART programmer datasheet to learn about all their features

TYPICAL APPLICATIONS ☒

Hydroponic crops, horticulture, strawberries, bananas, fruit trees, vineyards, olive groves, etc.





MODELS

The fertigation unit is **customised** according to the specifications provided by the customer. There are four models that can be adapted to the needs of each project

MAHER SMART



Automatic fertigation unit that is renowned for its reliability and easy handling, suitable for **medium and large farms**. It allows fertigation with pH and EC control, as well as management of windows, shade covers, misting and VPD. It can also be **operated remotely** from a smartphone, PC or tablet.

Items included:

- 1- Metal control box with automatic/manual selectors for each element of the installation
- 2- Coloured methacrylate synoptic
- 3- Electrical protections on the unit
- 4- Transmitter for pH and EC probes in a metal box
- 5- 7 bar pH electrode
- 6- Electrical conductivity probe
- 7- Stainless steel bench
- 8- Venturi structure for fertiliser and acid injection
- 9- 3 HP fertilizer injection pump and protections (optional)
- 10- Maher App: Remote management from a smartphone, tablet, PC, etc. (optional)

**Ferti
8000**



Maher Smart Fertigation Equipment





FERTI 8000



Automatic fertigation unit that is renowned for its reliability and easy handling, suitable for **medium and large farms**. It allows watering and fertilization with pH and EC control and can be **managed remotely** from a smartphone, PC or tablet

Items included:

- 1- Metal control box with automatic/manual selectors for each element of the installation
- 2- Coloured methacrylate synoptic
- 3- Electrical protections on the unit
- 4- Transmitter for pH and EC probes in a metal box
- 5- 7 bar pH electrode
- 6- Electrical conductivity probe
- 7- Stainless steel bench
- 8- Venturi structure for injecting fertilizers and acid
- 9- 3 HP fertilizer injection pump and protections (optional)
- 10- Maher App: Remote management from a smartphone, tablet, PC, etc. (optional)

**Ferti
8000**



Ferti 8000 Fertigation Equipment





FERTI 8000 COMPACT ☒

Automatic fertigation unit that is renowned for its reliability and easy handling, suitable for **medium and small farms**. It allows watering and fertilization with pH and EC control and can be **managed remotely** from a smartphone, PC or tablet.

Ferti
8000
 COMPACT

Items included:

- 1- Surface-version Ferti 8000 controller
- 2- Transmitter for pH and EC probes in a plastic box
- 3- 7 bar pH electrode
- 4- Electrical conductivity probe
- 5- Stainless steel bench
- 6- Venturi structure for injecting fertilizers and acid
- 7- 3 CV fertilizer injection pump and protections (optional)
- 8- Manual start for the injection pump (optional)
- 9- Maher App: Remote management from a smartphone, tablet, PC, etc. (optional)



Ferti 8000 Compact
 Fertigation Equipment





VISUALIZER



Manual fertigation equipment, suitable for medium and small farms. Allows to monitor the pH, EC and temperature of the irrigation water. Due to this, it is possible to carry out fertigation with pH and EC regulation manually. To do this, it includes a device that allows the visualization of electrical conductivity, pH and temperature values. Automated when required, using an irrigation controller.

Elements included:

- 1- pH and Electrical Conductivity Visualizer
- 2- 7 bar pH electrode
- 3- Electrical conductivity probe
- 4- Stainless steel bench
- 5- Venturi structure for fertilizers and acid injection
- 6- Fertilizer injection pump 2 HP 220V 5-6N vertical
- 7- Manual start for the injection pump (optional)

VISUALIZER FERTIGATION



Visualizer Fertigation





VISUALIZER

FERTIGATION

Controller	No (includes device to display pH and EC)
Remote irrigation management	No
Probe transmitter	No, Visualizer pH and EC
pH and EC probes	Yes
Structure	Stainless steel, AISI-304 polished
Injection pump (HP.)*	2 HP.
Maximum fertilizer flow / fertilizer line	300 l/h
Venturis	PVC glue. Diameter 25
Flowmeters **	300 l/h
Inputs connection diameter	50 mm
Outputs connection diameter	50 mm***
Probe kit connection diameter	Thread F ½"
Power	220 Vac 50-60 Hz



Visualizer Fertigation

* Varies depending on the number of channels, flow rate and pressure of the installation.

** They may vary depending on the flow to be injected in each line, depending on the installation flow rate.

*** The diameter will be 40 mm if the fertigation equipment includes a injection pump.



MODEL SUMMARY



FERTIGATION EQUIPMENTS MODEL

	MAHER SMART	FERTI 8000	FERTI 8000 COMPACT	VISUALIZER
Image				
Irrigation controller	Maher Smart in control box	Ferti 8000 in control box	Ferti 8000	No (includes device to view pH and EC)
Remote irrigation	Yes, Maher App (optional)	Yes, Maher App (optional)	Yes, Maher App (optional)	No
Probe transmitter	Model TRM04	Model TRM04	Model TRM04	No, pH and EC display
pH and EC probes	Yes	Yes	Yes	Yes
Structure	Stainless steel, AISI-304 polished	Stainless steel, AISI-304 polished	Stainless steel, AISI-304 polished	Stainless steel, AISI-304 polished
Support pump (HP)*	3 HP	3 HP	3 HP	3 HP
Maximum fertilizer flow / fertilizer line	600 l/h	600 l/h	600 l/h	600 l/h
Venturis	Bonded PVC. Diameter 25	Bonded PVC. Diameter 25	Bonded PVC. Diameter 25	Bonded PVC. Diameter 25
Flowmeters **	750 l/h fertiliser 300 l/h acid	750 l/h fertiliser 300 l/h acid	750 l/h fertiliser 300 l/h acid	750 l/h fertiliser 300 l/h acid
Input connection diameter	50 mm	50 mm	50 mm	50 mm
Output connection diameter	50 mm***	50 mm***	50 mm***	50 mm***
Probe kit connection diameter	Thread H ½"	Thread H ½"	Thread H ½"	Thread H ½"

* Varies depending on the number of injectors, flow and pressure of the installation.

** They may vary depending on the flow to be injected in each line, depending on the flow rate of the installation.

*** The diameter will be 40 mm if the fertigation unit includes a support pump.



ACCESORIES



maher app

Remote control of the irrigation controller

- Start / stop an irrigation manually
- Create/delete/modify irrigation programs
- Consult irrigation history
- View sensor graphs
- Backup copy
- Check incidents, start and end of irrigation
- Access to third parties
- E-mail sending with anomalies, start and end of irrigation



maher transmisor de sondas

pH and electrical conductivity transmitter

- Communication of the parameters recorded by the pH and EC sensors to the irrigation controller
- Outputs: pH, EC and temperature
- 128 x 64 pixel LCD graphic display
- Programming wheel for easy handling
- Automatic temperature compensation
- Automatic sensor type detection
- Configurable EC output range



maher radio

Remote irrigation control via radio

- Wirelessly open and close solenoid valves, start/stop pumps, alarms, etc.
- Wirelessly check the status of digital inputs and sensor readings
- Outputs: 8 or 16, depending on the model
- 1 master base station and up to 8 remote units



**Ferti
8000**

Fertigation equipment

Technology that understands your crop!

MAHER ELECTRÓNICA

www.maherelectronica.com

contacto@maherelectronica.com

+34 950 56 09 42

Ctra. de Málaga, 43
04779 Puente del Río, Adra
Almería, España