

For the fertigation of cultivations, we realized Bravomix, a fertigation dosing unit for soilless cultivations with dosage in mixing tank.

Bravomix can be configured with a horizontal or vertical axis pump and it is possible to install a variable speed drive on it, thanks to which each irrigation zone can be irrigated at the desired pressure.

For closed loop irrigation systems, Bravojet can be configured to control Spagnol **Drenamix**, the drainage recirculation unit.

Every project has its own peculiarity, for this reason we thought about Bravomix as a unit that can be configured based on your necessities, it can satisfy all your needs now and in the future as well.

Stay up-to-date: with Spagnol, **your green friend!**

#### Outlet flow rate:

From 10 to 36 m<sup>3</sup>/h.

#### Fertilizers dosing capacity:

4 channels x 800 l/h per channel.

#### Valves and sensors connections:

- By normal electric cable.
- By digital S-Bus with Expansion Box.
- By long distance radio communication.

## Mixing tank fertigation dosing unit.

# SPAGNOL BravoMix M

DESIGNED&PRODUCED BY SPAGNOL



*{.....we take care of growing things,  
we are designers by nature.....}*



# Bravo Mix M

Spagnol fertigation units are extremely versatile and can be easily configured according to the desired irrigation system: open field irrigation, hydroponic, sub-irrigation, open or closed loop irrigation and sub-irrigation systems.

The precise and reliable dosing channels for nutrient solutions can be configured in two different ways: with visual flow meter or with electronic flow meter.

The electronic one allows to control with extreme precision and security the multichannel dosage both in total conductivity mode and in proportional mode.

The crop sensors **SWC** (soil and substrate water content), **Drenamatic** and **Gravimatic**, as well as many other climatic sensors, can be easily connected to Bravomix so as to create an integrated system for the cultivation's management.

In addition to the fertigation control, Bravomix can manage the **climate in the greenhouse** in up to 4 climatic zones for 4 periods a day. In terms of nutrition and microclimate, it collects and processes a large amount of data and information, that can be subsequently processed to improve the production.

With **Vision On-Premises** and **Vision Cloud** services, the user has always the complete remote control of the entire system by smartphone, tablet or PC.



## Vision

Everywhere and anytime connected.



### Crop growing sensors

SWC, Drenamatic.  
Gravimatic.



### Greenhouse climate control

4 Climatic zones.  
4 Periods per day.



### Irrigation systems

Open.  
Closed loop.



### Main technical data:

Outlet flow rate:	From 10 up to 36 m <sup>3</sup> /h.
Fertilizer dosing capacity:	Up to 800 l/h for each dosing channel.
Fertilizer dosing channels nr.	Up to 4 / with visual flow meter or electronic flow meter.
Acid/basic dosing channels nr.	Up to 1 / with visual flow meter or electronic flow meter; diluted or concentrate acid solution.
Valves command nr.	Up to 300/ irrigation valves, irrigation quantity by time or volume.
EC sensors:	1 or 2 EC sensor with temperature measurement and compensation.
pH sensors:	1 or 2 pH glass electrode sensors.
User interface:	Standard industrial keyboard + Touch screen.
Dosage type:	Total EC / proportional / combined EC+proportional / fertilizer quantity / fertilizer quantity stop.
Irrigation Programs:	150 multi-function irrigation programs.
Type of irrigation systems:	Open loop / closed loop / ebb & flood / direct irrigation / indirect irrigation.
Irrigation management:	Time / pause-work / light sum / in function of; substrate moisture, crop drainage and crop-substrate weight.
Weather station:	Weather station with sensors on demand ( wind / rain / temperature / humidity / solar radiation ).
Greenhouse climate management:	Up to 4 zones with 4 periods per day. Command of: vents / heatings / screens / cooling / fog / Co2 / inflation.
Other programs:	Fog and antifrost system management/ filters washing / system washing.
Communication:	PC supervision by Vision On-Premises / mobile supervision by Vision Cloud.



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