



## INTELLIGENT CONTROL SYSTEMS



### IQ SYSTEMS

Intelligent control of crops through iQ systems. The iQ FERTIGATION models are complete fertilization systems used in modern hydroponic or conventional crops. The ideal choice to create the perfect conditions in your greenhouse, as you can design and implement automated irrigation strategies according to the needs of your crops and provide the required amounts of water and nutrients to the roots of each plant.

### IQ20

#### IQ FERTIGATION

Control of up to 3 fertilizer valves.

Hydrofusion test using 1 PH sensor.

Hydrofusion test using an EC sensor



A reliable and easy to use system for small crops. Used in both greenhouses and outdoors. Equipped with three fertilizer valves, eight tubular irrigation commands, an EC meter and a pH meter, the IQ20 is the ultimate fertigation tool.

### IQ30

#### IQ FERTIGATION

Control of up to 4 fertilizer valves

Control up to 24 groups of irrigation valves

Installed climate control system

7" touch screen installation ability

Hydrofusion test using 1 PH sensor

Hydrofusion test using an EC sensor

Ability to add additional sensors

email alert capability



### IQ40

#### IQ FERTIGATION

Control of up to 5 fertilizer valves

Control of up to 8 groups of irrigation valves

Hydrofusion test using 1 PH sensor

Hydrofusion test using an EC sensor

Fertilizer control capability using rates per valve

Manual operation of all commands

Ability to connect an external sensor to start irrigation

Ability to apply lateral fertilization (embroidery) with built-in venturi

Multiple display for controlling and adjusting the watering data

Use remote control for immediate change of watering parameters

Possibility of regulating conductivity (EC) and acidity (PH) limits for irrigation safety

Visual and audible alert alarm (alarm)

Stainless steel frame

Pressure gauge in each fertilizer valve with micrometer regulator to control fertilizer flow

Use of multiventuri for uniform suction of fertilizers without the necessity of moving parts

Recommended for crops 1-5 stremma

Hydroponic unit ideal for small cultures. The desired parameters of the crop are handled and adjusted using a remote control. This service gives the unit full autonomy, as the use of a P/C is not necessary. Recommended for crops up to 4 acres.



### IQ60

#### IQ FERTIGATION

Control of up to 20 fertilizer valves

Control of up to 100 groups of irrigation valves

Hydrofusion test using 2 PH sensors

Hydrofusion test using 2 EC sensors

Can be connected to a flowmeter for irrigation using cubic capacity

Wireless connectivity with PC or TABLET

Ability to connect to a mobile phone to send alarm and irrigation commands

Fertilizer capability with different command on each electrovalve

Use remote control for immediate change of watering parameters

Remote control capability (remote management)

4 fertilizer valves installed

Stainless steel frame

Recommended for crops 5-10 stremma

Hydroponic unit with characteristics that operate from 1 to 50 acres. Its program can be displayed on a computer or tablet and checked from there. It can be supported and combined with the iQ-Clima climate control system. The use of switches, available in the basic version of the machine, can make the operation of the machine manual. The connection to the existing pump irrigation is direct. It can support up to 10 fertilizer valves. Ideal for outdoor use.



### IQ120

#### IQ FERTIGATION

100 lt tank of fertilizer mixing

Stainless steel pump 5.5 HP

EC sensor and PH at head outlet (irrigation line)

25 m3/h digital water meter for irrigation control

Electrical control panel

Operation indicators (phase monitoring, thermal etc.)

Stainless steel frame

Recommended for crops 5-10 stremma

The IQ120 hydroponic unit is a complete fertilization system. The basic version of the machine is equipped with a 200 liter fertilizer mixing tank, a 5.5hp stainless steel pump and an electronic flow meter for irrigation or fertilization using cubic meters. The IQ120 unit is ideal for crops up to 15 acres. The ability to place a touch screen gives the head maximum functionality and proximity during use, in modern hydroponic or conventional greenhouses.



### IQ140

#### IQ FERTIGATION

100 lt tank of fertilizer mixing

Stainless steel pump 10 HP

EC sensor and PH at head outlet (irrigation line)

50 m3/h digital water meter for irrigation control

Electrical control panel

Operation indicators (phase monitoring, thermal etc.)

Stainless steel frame

Recommended for crops 10-60 stremma

The IQ140 water supply unit is the "flagship" of our hydroponic units. With a pump up to 20 hp, it can meet the requirements of any outdoor or greenhouse. The ability to combine with the iQ-Clima air conditioning unit, provides the advantage of irrigation planning by controlling evaporation, using measurements of temperature, humidity and sunshine. The IQ140 head has the ability to locate and retrieve data in real time, thus giving the user remote management of all parameters of the greenhouse. The capacity for different fertilization, valve and electromagnetic valve programs is so wide that the IQ140 can handle any challenge.



### IQMIX

makes fertilizer dissolution simpler



One of the biggest problems facing the nutrient solution manufacturing process is the difficulty of dissolving dense fertilizers. This problem becomes even more difficult during the winter months when low temperatures make it difficult to dissolve fertilizer, especially those containing sulfur or phosphorus. Knowing how important it is to properly dissolve fertilizers for proper and uniform fertilization, our company introduce the innovative IQ-Mix system, which makes fertilizer dissolution simpler. Both the materials and the ergonomic design of the IQ-Mix system make it very easy to use, regardless of the type of fertilizer dissolved. The system consists of a heavy-duty conical tank, a high-pressure stainless steel pump and a stirring motor with a special configuration for maximum stirring. Having the ability to separate the pump activation from the agitation system, we can adjust the operation of the machine according to the existed needs.

### IQCLIMA

a major control tool in a modern greenhouse



The IQ-CLIMA climate control unit is a major control tool in a modern greenhouse. Having the ability to measure and record climatic data that the user wants, the unit can control, in real time, any automation that exists in the greenhouse (windows, heating, cooling, curtains). The IQ-CLIMA climate control unit has the possibility of independent installation in the greenhouse or in combination with a hydroponic IQ unit, so it is a flexible solution, depending on the customer's requirements.

### IQGARDEN

direct control of both the irrigation dose and the irrigation frequency



The unit IQ GARDEN is made for use in large green land areas such as parks, football fields or golfs, but also in smaller land areas such as large gardens or farms. The main advantage of the head is the possibility of enrichment the irrigation water with organic or conventional fertilizers, achieving the stimulation and renewal of the plant. Simultaneously, the built-in system for measuring humidity, temperature and sunshine measurement system, gives the user the possibility of direct control of both the irrigation dose and the irrigation frequency. It is worth noting that the model has been designed with the guidance of a Landscape Architecture, so that it does not be a foreign body in the installation area.