

Environmental control systems - Hydroponics



- **Climate computer SercoVision**
- **Greenhouse labor management NITEA**
- **Fertigation units for greenhouses and orchards**
- **Fertilization recipes**

Sercom climate control systems for greenhouses and warehouses

NITEA Labor management system for greenhouses



GreenSim - A decision support tool for greenhouse crops

What is GreenSim

GreenSim is a computational tool – software which used to decide which type of greenhouse and its subsystems fit better to the investment plan, considering local weather conditions and market prices. By simulating the greenhouse environment and the crop, we calculate the investment cost and return of investment. For the calculations:

- We use hourly weather data of the location of interest (air temperature and humidity, radiation, wind speed, etc)
- We choose the type of the greenhouse and the subsystems like ventilation, heating, cooling, screens, CO₂, etc, as well as the technical specifications of these systems
- We choose the crop and the cultivation period
- We set the investment cost for greenhouse and subsystems and the product prices during the year

What are the advantages of using GreenSim

GreenSim is a unique tool for making decisions for investments in greenhouses. For calculations we consider technical characteristics of the greenhouse and its subsystems, crop development and financial data. With **GreenSim** we can calculate almost all parameters relating to:

- Crop development and expected production
- Consumption of heat and electricity
- Consumption of water
- The effect of different systems (heating, cooling, screens, CO₂, control set points, etc.) to greenhouse environment and crop development
- The effect of different covering materials and ventilation openings
- The cost and return of the investment

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Address

Agricultural Information Systems,
Agrostis Ltd
A. Tritsi 21,
570 01, Thessaloniki, Greece
www.agrostis.gr

Contact

info@agrostis.gr
+30 2310 804981-84

<https://agrostis.gr>