SEALED STERILE COMPUTERIZED HYDROPONIC CULTIVATION

ROME, MAY 16 2018
13 ha @ 700 meters height, on Salto Lake (RI)
Organically Different Cultivations: 100% open field (orchard, garden, spices & herbs) NO treatments

- Hydroponic Cultivations in sterile, sealed, fully computerized, new generation greenhouses
- Food Processing Line under Vacuum
- Agriturismo Locanda Colle Cerqueto
- Educational Farm
Hermetic, sterile, computerized, hydroponic plant for growing under absolute sterility anywhere in the world, and not only!

Standardized design, so that the greenhouses can work indiscriminately with the most common hydroponic techniques: Drip Irrigation, NFT and Ebb and Flow.

2 greenhouses and 1 phytotron (LED illuminated) for fully computerized, automatic, hydroponic crops, for independent production from external climatic conditions and without environmental pollution.
HYDROPONIC PLANTS
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CLEAN productions, independent on the weather, without generating environmental pollution and without being polluted:

- SEALED: NO exchange with the external environment
- STERILE: Air and Water are sterilized
- COMPUTER CONTROLLED: Autonomous Cultivations
- ELECTRONIC CULTIVATION RECIPE: at every moment, every day and throughout the life of the plant, a computer automatically controls and monitors all parameters according to a predefined recipe.
- CLOSED CYCLE: minimization of the water consumption.
HYDROPONIC TOMATO
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HYDROPONIC BASIL
FOOD PROCESSING LINE

Washing, sorting, blanching, pitting
Vacuum concentration
Putting-into-jar, capping & sterilization

NO Thickeners
NO Preservatives
100% Made in Italy
New way of indoor growing
A new appliance… a small automatic hydroponic greenhouse able to cultivate directly in the people’s home.

- Indoor cultivation” accessible to all
- Salads, spices, micro-greens, baby-greens directly at HOME @ 0 meters!

Just open the door and collect, at the rest thinks RobotFarm®.
Design & Development of a Vertical Farm:
- Hydroponic Cultivation
- ISO 20 shelter
- Sterile: ISO 8 Clean Class
- Closed Cycle
- Fully Automated from seed to harvest

Partnership G & A Engineering/ENEA SSPT-BIOAG

Co-financed by Lazio Region
CHEF PROJECT
NEW LED LAMPS

New generation LED lamps:

✓ Multi-spectral light
✓ Single Wavelength command & control
✓ Air and Liquid Thermal Dissipation, with selectable water temperature
✓ > 850 PAR @ 200 mm H
NEW LED LAMPS
IBIS Group Member
Member of the working group instituted by the Italian Space Agency concerning bio-regenerative systems.
The only Farm reality in an interdisciplinary working group.
Ferrari Farm selected for the educational path “GREEN” for the international delegation of the International Congress of Aerospace Medicine.

http://www.icasm2017.it/home.asp
OUR FUTURE

FUNCTIONAL FOOD

INDOOR FARMING

SPACE FARMING

ITALIAN BIO-REGENERATIVE SYSTEMS

VERTICAL FARMING