



NOVARBO

PLANT FACTORY

FOR VERTICAL AND INDOOR FARMING



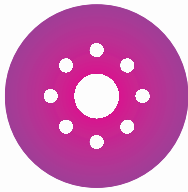
GREENHOUSE TECHNOLOGY



CREATING GREENER GROWTH

PART OF **BIOLAN** GROUP

ADVANTAGES AND BENEFITS



**Water cooled
led lightning**



**Plants moving
automatically.
Software controlled.**



**Tailorized substrates
and nutrients**



**High yield
& efficiency**

UNIQUE PLANT FACTORY CONCEPT

Novarbo has developed a unique automated water-cooled led lighting system that can be combined to heat recovery system.

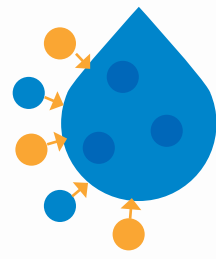
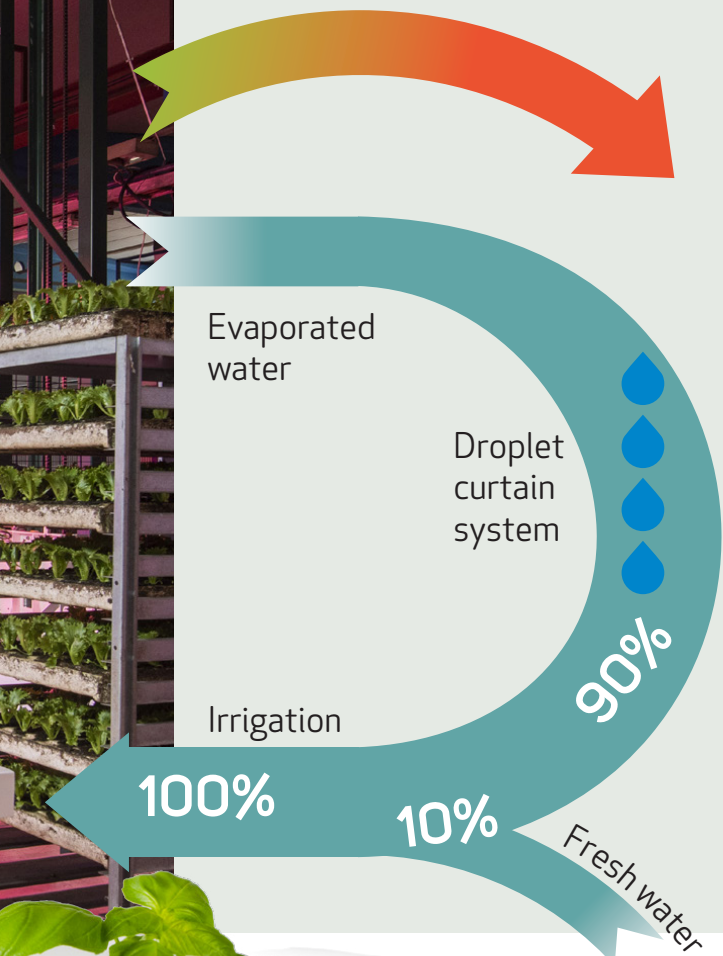
Integrated system consisting automatic track moving plants on line from small plant phase up to phase of ready-to-harvest crop, water cooled LED lightning, climate management system consisting cooling, humidity removal and even heat recovery. System is operated and controlled by Novarbo Growisor software. State of art software steers both track and plant movement, LED lights and climate management allowing to keep climate always in its optimum. Novarbo plant factory system also saves and even creates fresh clean water which is great advantage compared with traditional greenhouse cultivation.

Technologies of the concept have several patents granted and pending. Novarbo designs and supplies turn key solutions which include design and engineering, equipments and software together with completing installation work. Plant factory concept can be brought into almost what ever type of building or modified greenhouse facility. Please contact us already in the planning phase of plant factory project, in order to optimize the facility and feasibility.

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Water transfer



Droplet curtain
Cools and binds extra heat and humidity

- Warm air
- Humidity



Heat pump cooling and recovered heat energy

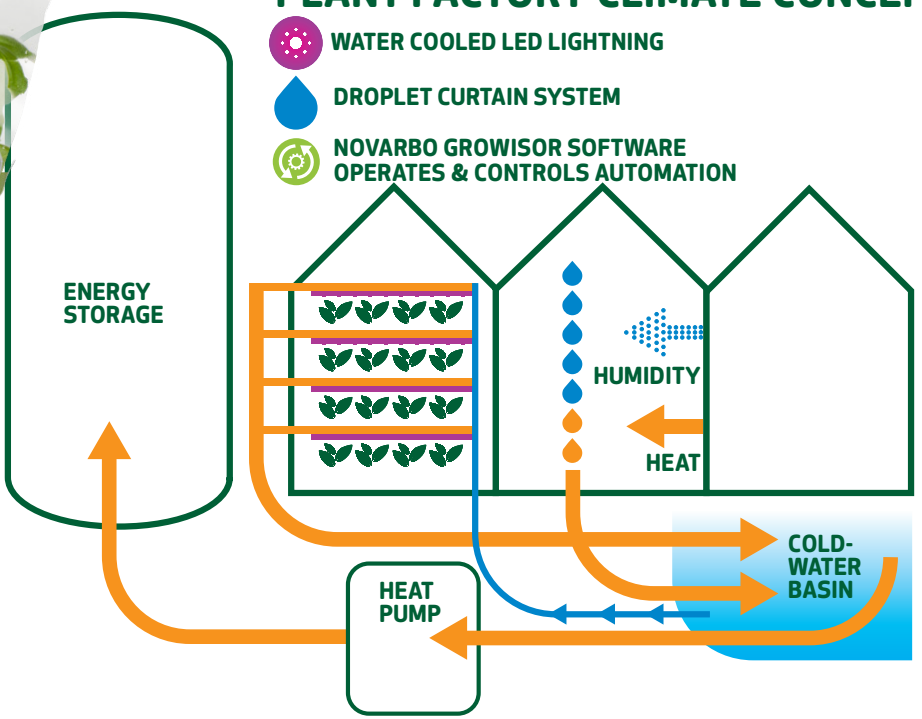


Saves fresh water
Distilled and clean water can be reused.

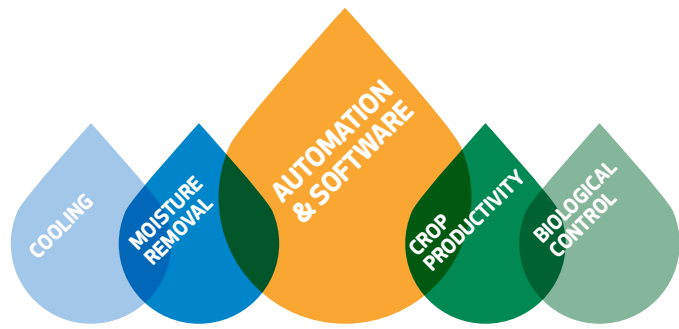


PLANT FACTORY CLIMATE CONCEPT

- WATER COOLED LED LIGHTING
- DROPLET CURTAIN SYSTEM
- NOVARBO GROWISOR SOFTWARE OPERATES & CONTROLS AUTOMATION

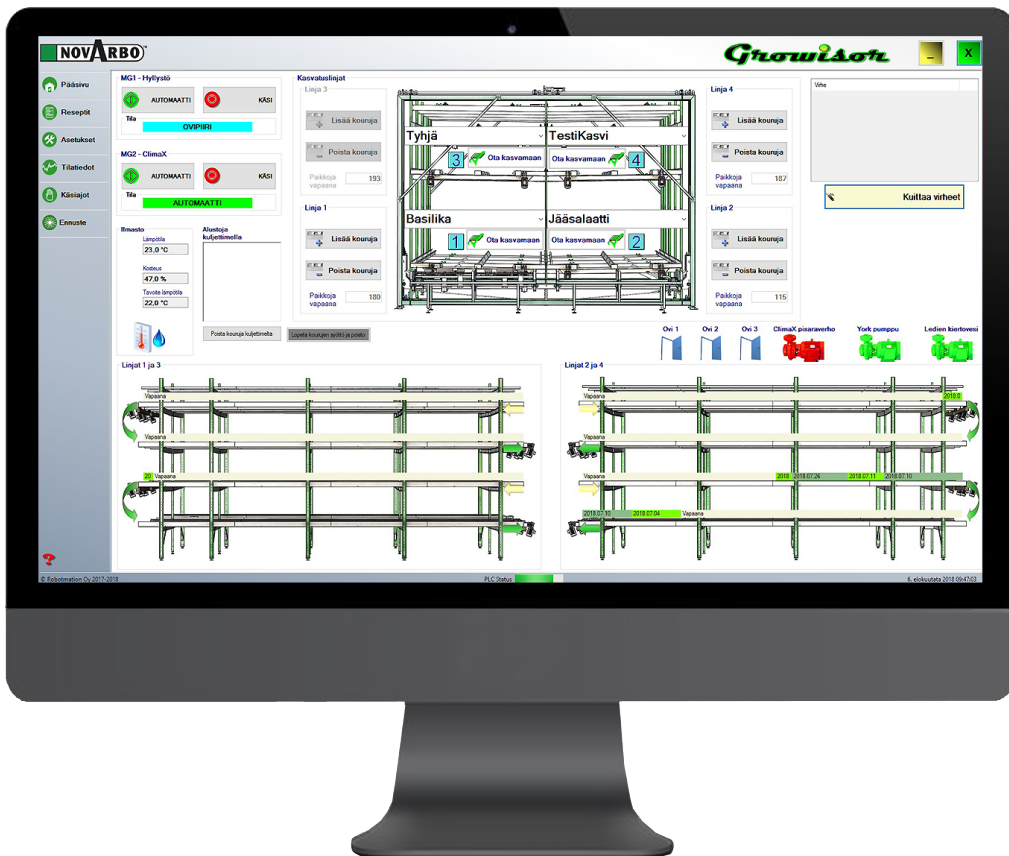


Ready factory
- all in one package






Plant Factory Brilliance

Automation - Software - Climate management - Substrate



Novarbo Plant Factory and vertical farming technology is so intelligent and advanced that it is far ahead of many other multilayer techniques. The brilliance of this concept lies in automation and full control of operations in

every phase of cultivation cycle. Besides of actual cultivation controlling also climate can be controlled by the Novarbo Growisor software.

-  GREENHOUSE TECHNOLOGY
-  GROWTH SUBSTRATES
-  FERTILISERS



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