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HOOGENDOORN automates 24 Ha of pepper crop at the "4 Evergreen" nursery

The Grootcholte family's 4 Evergreen pepper nursery was completely automated by Hoogendoorn. Their 24 climate groups, watering processes and the boiler house are controlled by the ECONOMIC, and labour data are registered wirelessly with our NOMAD system.

Lighting

The pepper nursery consists of four blocks of 6 hectares each.

Two of these blocks are equipped with suspended fixed lighting. The CHP installation provides power for the lights, but can also feed this back into the electricity grid. The demand for growlight, crop circumstances and the 7-day weather forecast can be used to decide whether it is beneficial to re-supply.



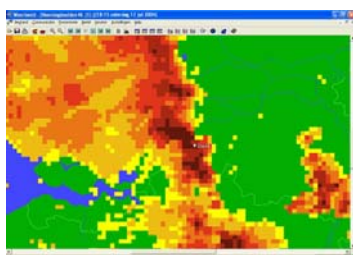
► This enables 4 Evergreen to keep this unwanted precipitation outside. A rain or hail shower can cause great damage to the plant directly, or lead to consequential damage in the shape of disease and rust spots. In addition, a decrease in temperature has a negative effect on energy efficiency and the RH in the house.

Plant condensation

The Meteoradar keeps rain outside, but humidity caused by plant and/or fruit condensation is considered an equally dreaded phenomenon providing convenient points of attack for disease and rust spots. The plant condensation program supplies a timely warning about the moment the plant is in danger of becoming wet, and the ECONOMIC can then automatically take countermeasures. This also provides for very efficient use of the minimum pipe, and this control contributes to a responsibly grown, quality product.

Meteoradar

The unique Meteoradar program forecasts showers and gives advance warning of exactly when the shower will come down on the Zoekweg location of the site. The ECONOMIC then ensures that the vents are closed at that point in time. ►



GROWLAB plant sensors

Of course, the Grootcholte family's new site would not do without GROWLAB plant sensors. ►

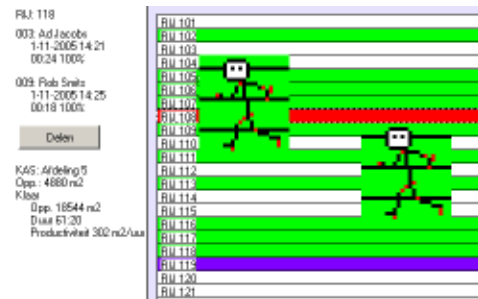
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► Amongst others, the infrared plant temperature camera, a light meter and four WET sensors are used in the houses. These sensors help make the correct decisions for an optimum crop.



Link to Bogaerts harvesting system

Bogaerts' harvesting system ensures that inputting labour data for employees becomes even simpler. Employees log in at the "intelligent" crop cart, and the crop cart, path number and kilos harvested are automatically linked to the respective employee. A special link between the Bogaerts system and the Hoogendoorn NOMAD provides 4 Evergreen with a permanent overview into the labour performance of their employees, so that "tracking and tracing" is no big problem.



Flexible and simple

The ECONOMIC controls the complete water management of this pepper nursery. It does not just actuate pumps and controls EC and pH, but also includes the EC, the temperature and the humidity content of the substrate mat in the picture. And with one push of a button, the status of all tanks is also included in the considerations via the tank management program. The ECONOMIC water management is not just simple to operate, but also extremely flexible.

NOMAD path registration

4 Evergreen uses the Hoogendoorn NOMAD for their labour registration processes. Employees enter all labour data into the input key, as well as all pests and diseases they spot. Not one step too many has to be taken either, as everyone has their own key with them.



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