

Priva TopCrop

The plant knows best



Tomato grower Pieter van Dijk:
“Quicker and more accurate adjustment results in fewer errors and more production”

Priva TopCrop is a revolutionary new plant-controlled concept for process control. Priva TopCrop makes it possible to include the plant directly in the control loop, as a result of which the exact transpiration capacity is known at all times. For the grower and growth advisor this means having a new 'control' for influencing the crop activity and the suppression of diseases: 24 hours a day, 7 days a week!

Plants' water balance is essential

The new concept comprises the existing Priva Connex controls for the greenhouse climate, along with an additional control that provides irrigation, heating and ventilation when the plants require it. The system is based on the crop activity. This is measured via the plants' water balance, in other words, from the take-up, the transportation and the transpiration of water. The purpose of the control is to ensure that the plant always has enough water to transport nutrients and assimilates, to build new fibres and to keep itself cool. The crop control promotes a more balanced crop growth, without growth disorders or abnormalities. This can be achieved by inhibiting the transpiration or even by giving the plant additional stimulus. Transpiration is, after all, the driving force behind the take-up of water and nutrients.

Growth strategy forms the basis

The grower controls Priva TopCrop with his experience and green fingers. The growers' strategy and the growth process of the plants form the basis from which all

systems are controlled. Priva TopCrop allows for stricter control of growth planning and provides more grip on yield and costs, because the plant is directly included in the control loop. The key goal of Priva TopCrop is improving business profits.

5 advantages

Priva TopCrop provides a control for influencing the crop activity and the suppression of diseases. In actual fact this means that you have more grip on:

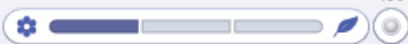
- production amounts and planning;
- quality and product specifications;
- the use of crop protection agents;
- energy consumption;
- work planning.

It also offers the possibility to prevent crop damage that only becomes visible in the long term. Priva TopCrop measures and responds directly and very precisely. It also works more simply than regular control systems. There are fewer variables to be set by the grower, which reduces the risk of errors.

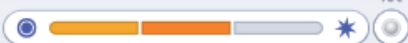


Afdeling 1

Gewasactiviteit



Ziekte­druk



Kas­lucht

T	RV	CO ₂
17.1 °C	88 %	454 ppm

And the grower who makes the fewest mistakes achieves the best quality and the highest production.

Ease of use

A graphical user interface is used to set the desired level of crop activity and disease suppression. As the plant is included in the control loop, direct feedback occurs, affecting the crop activity and increasing disease suppression.

Priva TopCrop is effective in tomato cultivation

What is special about this latest control concept is the combination of measurements at the plant and its immediate vicinity and the control systems' short response time. The value of this can be seen in particular climate conditions which do not, by definition, give rise to actions such as ventilating or heating. Tomato grower Pieter van Dijk has had recent experience of Priva TopCrop.



What can Priva TopCrop mean for you?

Climate controlled
Did I set all influences correctly?
Do I irrigate sufficiently?
Shall I set a minimum vent position and pipe temperature?
Do fungi have a chance of growth?
I notice crop damage. Will interfering help?

Crop controlled
Simple control: the plant adjusts itself
My plant always has enough water
The plant optimizes the use of vents and pipes
The control manages the disease pressure
The plant anticipates before a crop damage arises

Product introduction end of 2012

In the next couple of months, various crops will be used to gain experience with Priva TopCrop. This is because each crop group responds differently to the set controls for irrigation, heating and ventilation. The actual product introduction is planned for 2012.

Do you need more information?

You can find more information on the website:

www.priva-international.com/topcrop.

Would you like to know more about the possibilities for your business?

Please contact edwin.dekker@priva.nl or paul.schoorl@priva.nl on telephone number +31 (0)174 522 600.

Priva
Zijlweg 3
2678 LC De Lier
P.O.box 18
2678 ZG De Lier
The Netherlands
T +31 (0)174 522 600
F +31 (0)174 522 700
www.priva-international.com

Your Priva partner:

