

# Climate control by the VPD (Vapor Deficit Pressure)

By the VPD, derived from the air temperature and relative humidity, we can control the following:

## **Ventilation control**

When the temperature is higher than 35°C, the plant loses water faster than its absorption capacity.

If this happens when the plant is in the flourishing stage, we witness a big loss of flowers and therefore in the crop. Moreover, when it happens, it is recommended to open windows in the greenhouse in order to lower the temperature.

Over 40°C, the plant closes the stomata, avoiding transpiration, increasing the plant temperature and avoiding the absorption of nutrients.

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## **Whitewashing**

Over 35° it is important to whitewash the roof in order to reduce the solar radiation.

In the vegetative growth stage it is recommended to put the whitewashing off, but never over 40°C.