

Experimental results and modelling of humidity control strategies for greenhouses in continental and coastal settings in the Mediterranean region. II: Modelling of strategies

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Abstract

Strategies for humidity control —with and without heating— were evaluated via simulations performed with a previously developed model (see accompanying paper, this issue, part I). With heating, the best strategy combined the use of a humidity setpoint with step control of the roof window, increasing the ventilation in line with the outside temperature. Without heating, the best strategy again combined the use of a humidity setpoint with step control of the roof window, but required ventilation to be increased in line with the inside air temperature.

Additional key words: energy consumption, heating, moisture content, ventilation.

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