

Climate Cell for Cultivating Plants in Multiple Layers Having a Space-Saving and Energy-Saving Climate System

Abstract

In order to create a closed climate cell 100 for raising plants in several layers 12 arranged one above the other, wherein the climate cell 100 comprises at least one chamber 10, in which the layers 12 are arranged one above the other, and extend from a first side 11a of the chamber 10 to a second side 11b of the chamber 10, wherein each layer 12 has at least one plant-raising container and at least one lighting platform arranged thereover, wherein a climate is set in at least one chamber 10 by means of a climate system 20 of the climate cell 100, which has both a space-saving and an energy-saving system for adjusting the climate, it is proposed that a respective heat-storing element 13 be arranged on the first 11a and second 11b side of the at least one chamber 10, wherein an air flow 25 generated by a ventilation system 21 of the climate system 20 flows through both heat-storing elements 13, wherein one of the two sides 11a, 11b at least at one point in time forms an air inlet side 23, and the remaining side an air outlet side 24 for the air flow 25, wherein the heat-storing element 13 arranged at the air inlet 23 functions as a heat-emitting element 13a, and the heat-storing element 13 arranged at the air outlet 24 functions as a heat-receiving element 13a.

<Fig. 1>