

Title (en)

Process for controlling the temperature and the humidity of the air in rooms with an air conditioning installation

Title (de)

Verfahren zum Regeln von Temperatur und Feuchte von Luft in Räumen mittels einer raumluftechnischen Anlage

Title (fr)

Procédé pour la régulation de la température et de l'humidité dans les enceintes utilisant une installation de climatisation d'air

Publication

EP 0643271 B1 19970604 (DE)

Application

EP 94114028 A 19940907

Priority

DE 4330646 A 19930910

Abstract (en)

[origin: EP0643271A1] In order to develop a method for controlling the temperature and the humidity of air in rooms by means of an air conditioning installation to the effect that universal optimisation is possible given various stipulated target functions, the process characteristic (process cycle) is determined such that a) a selected target function is fulfilled, it being optionally possible to fix the scale of evaluation differently for each individual unit, b) boundary conditions, which limit the states of the air upon exit from the individual units with respect to relevant quantities, and which restrict the use of units with respect to characteristic quantities, are prescribed, c) the technically physically realisable changes in state in the individual units are determined, d) the overall process characteristic is realised by juxtaposing the changes in state in the individual units, and after the target function has been reached the control results are fixed, by giving the parameters of state of the air relative to the respective unit, in such a way that e) thereafter the operation of each unit can be controlled or regulated individually or in a fashion combined into groups, in which latter case the optimised air exit parameters can be used as desired values. <IMAGE>

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