Abstract

A device for dehumidifying room air has a chamber consisting of at least one first cavity (1) and at least one second cavity (2). The cavities are separated by at least one water-permeable and/or water-vapor-permeable structure (3), these structures (3) lying in each case in the direction of the fluid streams flowing through the cavities (1, 2) of the chamber. In this case, a first air stream (11, 12) which is to be dehumidified flows through the first cavity (1). The second cavity (2), with its second air stream (13, 14), at least partly absorbs the moisture extracted from the first stream.

(Fig. 1)