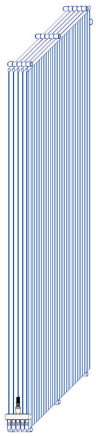
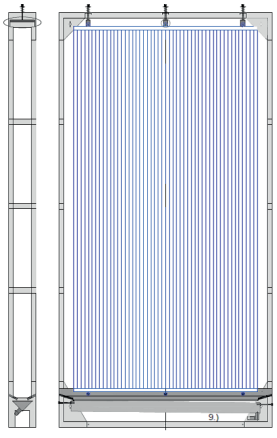
CONVECTOR GRAVIMAT

Cooling, heating & dehumidifying with capillary tube mats OVAMAT G 10

System data sheet





CLINA - BETTER HEATING AND COOLING

CONVECTOR GRAVIMAT

Cooling, heating & dehumidifying with capillary tube mats OVAMAT G 10

System data sheet

Description

- vertically arranged capillary tube mats are hooked into a frame behind any air-permeable and moisture-resistant material, such as a cupboard door with upper and lower openings, blinds, wooden slats, galvanized metal plates, etc.
- the capillary tube mats are connected to each other via a header and cold water flows through them in case of cooling
- in this case, warm air enters the convector at the top, cools down on the capillary tubes, moisture condenses on the capillaries in form of condensed water, is collected in a tray and pumped off if necessary
- the cool, dehumidified air flows downwards due to the greater density, where it re-enters the room
- the system can also be used for heating

Advantages

TEMPERATURE CONTROL WITHOUT DRAUGHTS

A natural convection is created in the room, which in contrast to forced convection with fans, increases the well-being.

COOLING AT HIGH HUMIDITY IS POSSIBLE

Particularly suitable for premises located in regions or climate zones with extreme weather conditions and high humidity or rooms for animal husbandry.

EASY RETROFITTING

As front-wall installation or integrated in the wall, little space requirement, adaptable to any interior, easy installation and cleaning, any arrangement of the openings possible.

SELF-REGULATING EFFECT

Performance and air flow are dependent on the temperature difference between room air and water

Technical Data

HEATING CAPACITY
at free convection

approx. 350 W
ΔT = 15 K
(between room air and flow temperature) for standard design

COOLING CAPACITY
at free convection

approx. 600 W
ΔT = 10 K
(between room air and flow temperature) for standard design

DEHUMIDIFICATION

ACOUSTICS

sound absorption possible with appropriate materials

SYSTEM WEIGHT mat unit:
5 mats filled with water:
approx. 11 kg/m² plus frame

SYSTEM WEIGHT
standard mounting frame:
approx. 13,8 kg

MOUNTING FRAME (standard design): 2.270 x 1.160 x 150 mm (H x W x D), inlet and outlet openings for the circulating air with 75 % free cross-section relative to the GRAVIMAT cross-section

Component	Material	Dimensions	Other
CAPILLARY TUBE MAT INCL. PUSH-LOCK CONNECTIONS	**capillary tube mat:** polypropylene (PP-R), recyclable **push-lock connections:** polypropylene (PP), recyclable brass, partially nickel-plated	mat distributor pipe: 20 x 12 x 2,0 mm capillary tube: 4,3,4 x 0,5 mm distance of the capillaries 10 mm	mat unit with 5 capillary tube mats incl. 2 lateral push-lock connections per capillary tube mat designation: OVAMAT G 10.11 pressure stage: PN 10
HEADER/ CONNECTION KIT	polypropylene (PP-R), recyclable brass, partially nickel-plated	push-lock system 15 mm	for parallel arrangement of 5 capillary tube mats (supply & return line); included in delivery
CONNECTING HOSE	inside: rubber (EPDM) outside: high pressure nylon fabric connector: nickel-plated brass	lengths: 500/800/1200 mm diameter hose: DN 13 outside diameter connector: 15 mm	flexible pressure stage: PN 10 push-lock system
MOUNTING FRAME	galvanized sheet steel	height x width x depth: 2.270 x 1.160 x 150 mm	the height can be adjusted on request
CONDENSATE TRAY	plastic	according to the frame dimensions	a power connection is necessary for the use of the pump
SUPPLY AND RETURN LINES	corrosion resistant	depending on the room size	
PANELLING/COVERING	individually selectable, moisture resistant, with openings for air circulation	according to the frame	

Contact

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