MOLD PREVENTION WITH INFRARED HEATING FABRIC

STOP MOLD IN ITS TRACKS

V4heat by Vitrulan

GET OF RID OF MOLD PERMANENTLY

MOLD PREVENTION BY HEATING WALLS

Corners, particularly on exterior walls, are the areas most susceptible to mold growth: warm air meets a cold wall, condensation occurs and provides the ideal breeding ground for mold. Mold around the home is not just a visual problem, it also has the potential to cause health problems quickly.

Mold can grow behind wardrobes and other furniture for a long time without being noticed, often causing any number of illnesses ranging from allergies to asthma. Once discovered, removing mold is often a time-consuming and costly process – not to mention the reduction in home comfort during the renovation period.

The V4heat Anti-Mold Kit effectively prevents condensation and hence the formation of mold. The system controls itself by means of a temperature sensor, ensuring a constant wall temperature that stops mold formation in its tracks. Operation is child's play: once connected, the thermostat and control systems take over and automatically adjust the heating.

HOW MOLD DEVELOPS

Once mold infestation is discovered in a building, the first thing to do is to find the root cause. Moisture is always the trigger for mold growth and its causes are manifold:

- Moisture penetrating from the outside or rising damp
- Moisture caused by water damage, e.g. a defective pipe
- Moisture caused by condensation at thermal bridges, e.g. in corners of a room or behind wardrobes as well as by showering, cooking, drying laundry etc.

While the first two causes are the result of structural defects or sudden damage and can be remedied after repair, it is difficult to avoid the generation of moisture in use of space.

Since the exterior surfaces of a corner are larger than the interior surfaces, geometric thermal bridges can occur. The corners of a room thus remain colder than the other wall surfaces (Fig. 1). As a result, the temperature in corners falls below the dew point, moisture builds up and turns into water droplets – the ideal breeding ground for mold.
The same applies to walls hidden by large pieces of furniture such as wardrobes: the air cannot circulate and carry the moisture away. It settles on the wall and promotes the growth of mold.

The dew point is the temperature at which water vapor in the air begins to condense to liquid water.

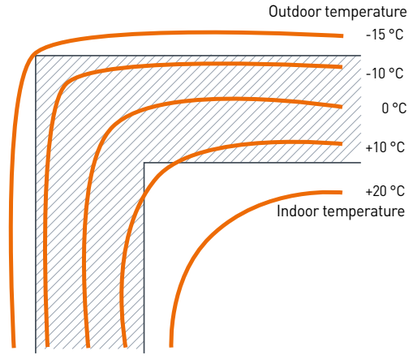

Fig. 1: Temperature curve diagram

EASY INSTALLATION

EFFECTIVE PROTECTION

With the V4heat Anti-Mold Kit, preventing the growth of mold on walls that are cold due to the building structure (thermal bridges) is child's play: The heating fabric is simply embedded in the plaster of walls already affected by or prone to mold growth (e.g. cold corners of exterior walls, in the bathroom or behind large pieces of furniture) and becomes invisible after installation. Since the wall is heated, condensation caused by moisture from cooking, washing and so on cannot form on the wall.

Equipped with a temperature sensor, the heating output is automatically adjusted to a temperature range that gives mold no chance to grow. The higher surface temperature of the wall effectively prevents any indoor moisture from condensing. Mold spores are thus deprived of the very basis they live on.

EASY INSTALLATION AND CONNECTION

PLUG & PLAY

The core element of our Anti-Mold Kit is a heating fabric made of glass fibers and finished with a special carbon coating. The fabric is embedded into the plaster of the wall and then connected with the "Wallbox" control unit using the pre-mounted terminals. Then simply plug it into the socket and the Wallbox takes control.

The power supply is a simple „plug-and-play" solution and therefore particularly easy and safe to connect.

Installation is straightforward and can be done by a painter or decorator. Thanks to the simple and safe connection technology, no professional electrical knowledge is required.

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AT A GLANCE

TECHNICAL HIGHLIGHTS

The kit contains everything required for installation in the corner of a room:

Heating fabric:

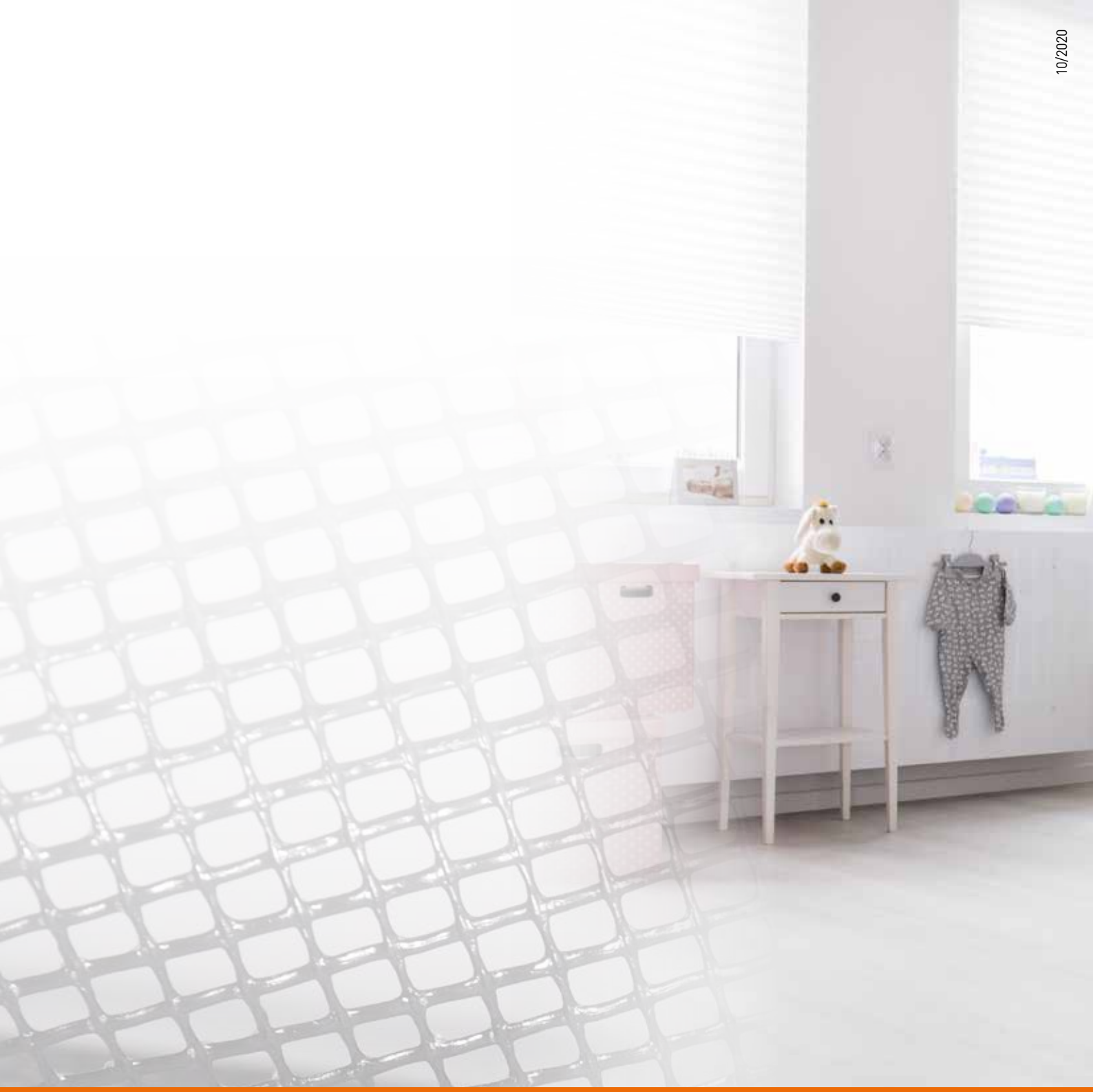
- 2 drops of 2.5 m each with 1.50 m power cord, width 53 cm each

Wallbox:

- 200 Watt power supply unit with standby mode
- Temperature switch with option to connect a structural element sensor
- One socket for connecting the structural element sensor
- Two sockets for connecting the heating fabric drops

Miscellaneous:

- Structural element sensor, 3.50 m long
- Installation instructions
- 1x 5 m insulation tube for flush-mounted installation
- 3x 3.5 x 35 mm screws
- 3x 5 x 28 mm wall plugs



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