HYGROMATIK®

member of CAREL group CAREL

A CONSTANT HUMIDITY ENSURES QUALITY AND EFFICIENCY

Air humidification in wood processing environments

Wood is a natural raw material which, due to its hygroscopic properties, absorbs moisture from or releases it into the surrounding air. The **efficiency** of the manufacturing process and the quality of the end product depend heavily on a constant and controllable humidity level in the working environment. If wood dries out, deformation, tension or cracks occur.

In the **further processing of wood,** optimum humidity ensures that adhesives, varnishes or laminates do not dry too quickly and a lack of adhesion leads to warping or peeling. The processing of wood is usually associated with increased dust formation. Optimised air humidification ensures that dust is quickly bound and less dust is swirled around in the ambient air - resulting in a healthier indoor air climate and lower dust exposure for employees.

In addition, the use of adiabatic humidification systems provides advanced and environmentally friendly **air cooling.** This is used to compensate for the process heat generated during production by controlling the temperature and creating an optimum indoor climate.

The advantages at a glance

- Increases material and process efficiency due to fewer deformations or shrinkage
- Improves product quality in terms of appearance, durability and functionality
- Creates a healthy and pleasant working environment for operational employees
- Reduces operating costs due to energy-efficient cooling performance

Constant humidity

for industry and processes

We take responsibility for more sustainability.