

Success by the use of MERLIN products

Keeping relative humidity in an optimum range helps humans, material and machinery. Create a better climate for higher production output.

The MERLIN Micro-Drop-System



Creates:

- healthy microclimate in production area
- improved employee well-being
- optimum air humidity in production area
- less electrostatic and dust
- effective cost savings



Supports you with:

- optimal material conditioning
- improvement of product quality
- reduction of waste
- utilization of maximum machine capacity
- reduction of sick time



Merlin - Partner

stiles e-tech
Enhancement Technologies



Humidification



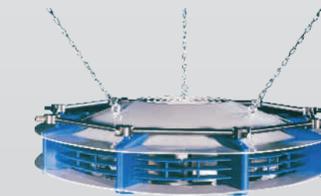
Measuring Technique



Cooler



We create successful climates



Healthy climate change

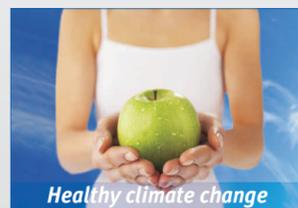
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MERLIN
Innovation by passion



With high pressure to higher productivity

MERLIN transforms water into a climate of success. Ambient atmospheric conditions have a substantial impact on basic material conditions. Hygroscopic materials, such as wood or paper, change dimensions and properties when the ambient air is too dry. Consequences are unpleasant and expensive.



Examples:

- undesired dimensioned change
- extra rework of damaged material
- additional uncalculated material costs
- production problems during heating season
- slower production rates
- unpredictable product quality
- higher electrostatic charge
- poor employee performance
- long time of staff away sick
- increased dust formation



The principle

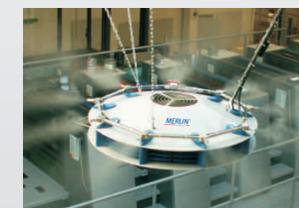
Incoming water for high pressure systems is filtered hygienically clean drinking water. Additional water treatment is available with a softener, reverse osmosis and disinfection unit according to customers specifications. The water lubricated high pressure pump then feeds hoses up to 70 bars (1015PSI) and atomizes water at the nozzles.



- The flexible SPS-controller combined with the high quality humidity sensor keeps the relative humidity constant.
- With the optional PC-visualisation, you have the possibility to control the whole system from a remote workstation.
- The oil-free stainless steel high pressure pump has high industrial safety and long lifetime.
- Patented humidification units draw warm air from above the unit, providing fast evaporation.
- Use of humidification units without fans is possible with appropriate room dimensions.

Humidification system in action

High - end technical equipment for humidification. No matter what your demand, the Merlin system is specifically calculated according to your needs. Installation takes place without interruption of production. Merlin systems work successfully all over the world.



At a glance

- modular and functional construction
- easy to install “plug & play”-system
- oilfree stainless steel water lubricated pump
- patented humidification units with ventilators for optimum airflow
- modern, functional industrial design
- low energy demand
- short payback time
- high hygienic standards
- optimum humidity balance
- high industrial safety