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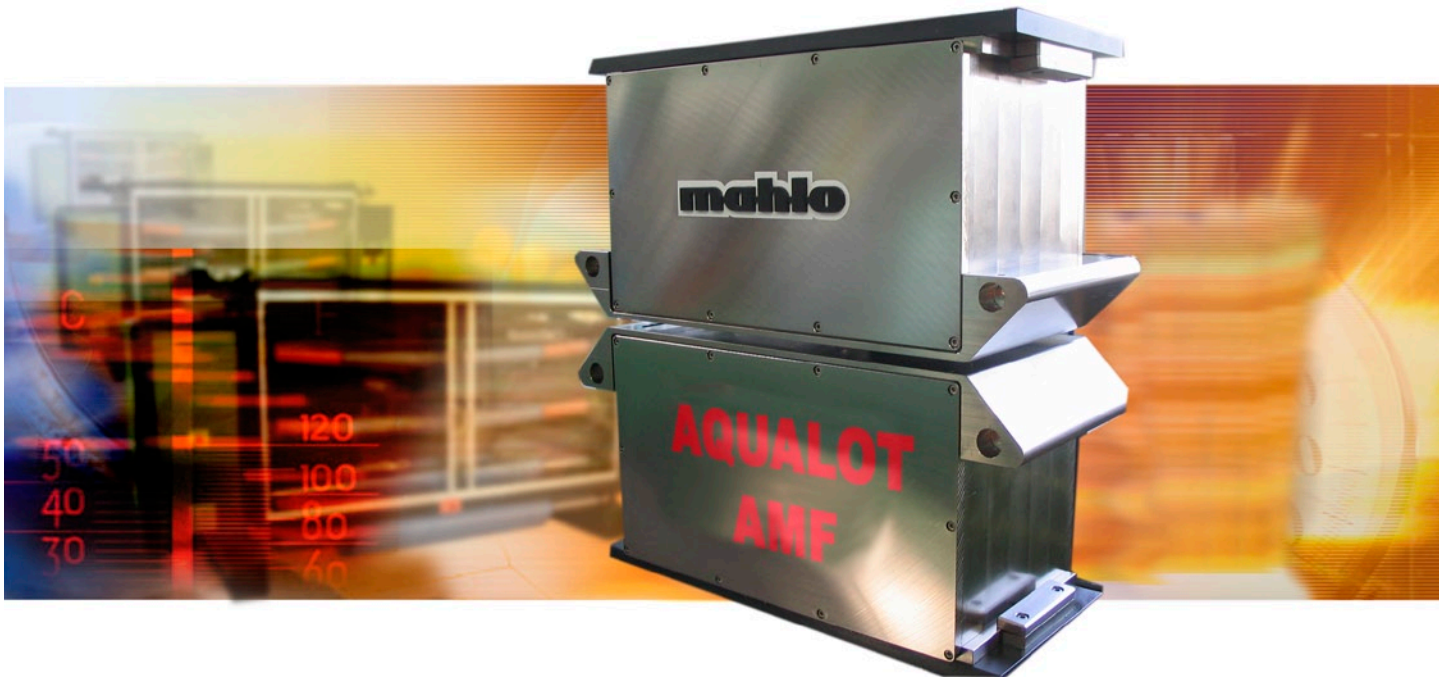
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Quality made
in Germany

AQUALOT AMF

Measurement of moisture by Microwave-absorption



**Measures the total amount of water
in materials**

Touch-free and non-destructive gauging

Ultra-precise measurement

**Measures either high or low
percentages of water**

Measurement

Control

Automation

AQUALOT AMF

Measurement of moisture by
micro-wave-absorption

The task

Detect Correct Check

Continuous, exact and non-contact measurement online of the amount of moisture retained by flat materials in sheet or web form has, on the many and varied processes in the nonwoven, textile, paper, and plastics industries, and in the coating sector too, a tremendous influence on quality and productivity.

The solution

Microwaves are partially absorbed by water. An oscillator beams a defined amount of microwave radiation through the online material. A receiver determines the extent

of the unabsorbed radiation. The amount absorbed is related to the percentage of water retained by the material at the measuring point.

The benefits

The AMF allows the user to determine exactly the total amount of moisture retained by the material. Measurement is touch-free and non-destructive. The measured value can be fed by way of an instantaneous value into a servo-mechanism in order to control line-speed, dryer output or padding mangle nip pressure.

Layout and options:

The microwave sensor is available as a „stand alone“ system or as a module combined with those of either an Optipac VMC-12 or Orthopac RVMC-12 process control system. The user-interface is attached to the modular assembly of the Optipac VMC-12, i.e. there is virtually no limit to the way in which it can be configured.

Benefits at a glance

- Measures the total amount of water in materials, without touching them and non-destructively
- Ultra-precise measurement
- Measures either high or low percentages of moisture
- Insensitive to variations in either water or material composition, or dyestuff pigments
- Optimises drying and coating processes in terms of homogeneity
- Efficient productivity and use of energy