SMART DRYER AUTOMATION

- Reduction of energy requirement for the drying of melamine films of up to 30%
- Start of digital process data collection and analysis (DTC | Industry 4.0)
- Improvement of the production by reproducible process control
- Our solution: control of the dryer-air-management by application of smart sensor technology for volume flow, moisture and web temperature

VITS · IFA TECHNOLOGY · Wessel Environmental Technologies · airprotech · EISENMANN Environmental Technology

Members of Deurotech Group

TOTAL DRYING CONTROL FOR YOUR PRODUCTION

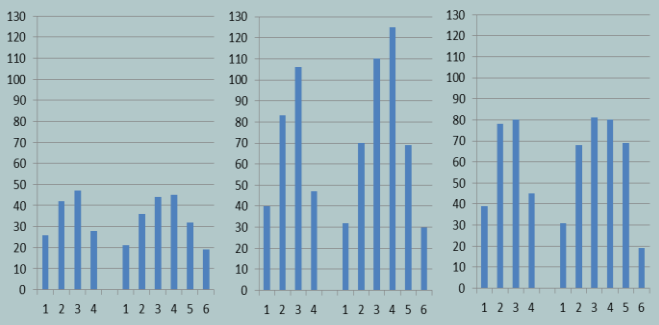
- Automatic control of exhaust air and supply air quantities by active moisture measurement
- Control and supervision of the circulating air temperature resp. rpm by contact-free web temperature measurement

Moisture of exhaust air

Moisture of circulating air

Web temperature

Moisture profile of circulating air



Version 1 – EFFICIENCY Dryer E

- Exhaust air volume for current production is controlled via target value of moisture → energy consumption is decreased
- Web temperature curve is measured, monitored and documented → no over-drying of paper
- All air volumes are measured and balanced → underpressure in dryer is permanently monitored
- Interruption of production automatically results in stand-by operation → minimum energy consumption

Version 2 – SMART Dryer S

- All advantages of version 1
- Each section is an independent, intelligent unit → regulation of temperature, moisture, circulating air volume
- SMART for transparent production, total process control and quality monitoring
- Moisture curve is measured, monitored and adapted to the present production
  → reproducible drying behaviour
  → adjustable to different product groups
  → no exceeding of circulating air moisture
- Quick conversion to new production parameters with active splice tracking

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