CD RESULTS Flash

Aqualizer Reduces Moisture Variation by 70% for USA Photocopy Paper Producer

A Southern USA, fine paper mill achieved a dramatic 69.7% reduction in CD moisture profile variation for their photocopy paper operation with the recent start-up of an Aqualizer remoisturizing system.

Cross Directional Aqualizer Application
The 118 zone Aqualizer is located after the size press, at the entrance to the fourth and final dryer section. The high resolution Aqualizer features a unique air-atomized, vortex spray nozzle designed for a very wide flow range.

The Aqualizer remoisturizing system was part of a major machine upgrade which also included a Da Vinci QCS, Calcoil CW and AutoSlice CDW along with moisture, caliper and weight optimizers. The new Honeywell actuators replaced both Impact and Beloit equipment.

2-Sigma Moisture Variation Reduction
Immediately after the Aqualizer was placed on control, a 69.7% reduction in 2-sigma moisture variation was recognized, which remained constant. The moisture variation was reduced from 0.658 to 0.199, and the average moisture was increased from 3.88% to 4.25% allowing for substantial savings in energy and fiber.

Summary
With narrow CD resolution, and 1000-step flow resolution, the Aqualizer offers very precise moisture profile control, which uniquely matches the needs of this fine paper operation. The mill’s paper quality and profitability have subsequently been improved.

Key Machine Data

- **Grade**: Fine photocopy paper
- **Basis Weight**: 74-900 g/m² (50-61 lb/3300 ft²)
- **Moisture**: Up to 7%
- **CD Weight Control**: AutoSlice CDW
- **CD Moisture Control**: Aqualizer
- **CD Caliper Control**: Calcoil CW
- **QCS**: Honeywell Da Vinci

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