

Calendizer XP

Dry End Steam Shower

Product Brief

The Calendizer™ XP dry end steam shower, a key component in Advanced Finished Technology (AFT), optimizes the finishing process through temperature and moisture gradient calendering for improved sheet printability.

The Calendizer XP features selectable zone spacing, drip-free operation and compact size for flexibility in meeting the demands of every application.



The Calendizer XP optimizes the finishing process with moisture gradient calendering to produce a uniform sheet to improved printability.

Features and Benefits

- **Optimize Finishing:** Optimize printability, gloss, smoothness, strength and bulk with temperature and moisture gradient calendering.
- **Finishing Flexibility:** Improve print quality at the same calender loadings, or same print characteristics, providing flexibility in AFT and control over sheet two-sidedness.
- **Improve CD Profile:** Calendizer improves cross direction (CD) gloss, smoothness and caliper profiles, increasing sheet uniformity and printability.
- **Create New Market Potential:** Capture new market segments with specialty value-added grades, made possible with Calendizer.
- **Reduce Rejects:** Reduce waste associated with caliper and quality, and increase production of on-grade product.
- **Easy Installation:** The compact size and drip-free operation allow easy installation on or before the calender stack, above or below the sheet, as well as inside the calender pocket.
- **Expert Support Services:** Honeywell's worldwide support services network provides ongoing optimization and systems support.
- **Steam Condition:** Steam Control Units (sold separately) are custom-engineered for each application to ensure optimum steam conditions which guarantee drip-free operation.

Description

Moisture and Temperature Gradient Calendering

The Calendizer XP adds heat and moisture to the sheet by condensing steam on the surface. The sheet surface becomes more plastic and easier to calender, which results in a smoother sheet without excessive bulk reduction or strength loss for improved printability.

Precise Steam Application

Individually controlled pneumatic valves precisely meter the steam application to the sheet. Selectable zone widths are available from 76 mm to 152 mm, to match the application requirements.

Compact Beam

The Calendizer's compact stainless steel beam can fit in the calender pocket to ensure the earliest steam application, as close to the nip as needed. Specially designed condensate traps and pre-heated shell guarantee drip-free operation to allow for positioning above or below the sheet. The 316 stainless steel metallurgy ensures long life and reduced maintenance costs.

Steam Control Unit (Option)

Correct steam conditions are required for optimal performance. A complete Honeywell Steam Control Unit is recommended.

Specifications

Metallurgy

- Main Body and Pneumatic Actuator:
316 stainless steel
- Mounting Brackets and Retraction Components:
Epoxy coated carbon steel

CD Zone Width

- Minimum spacing:
76 mm (3 inches)
- Maximum recommended spacing:
152 mm (6.0 inches)

Pneumatic Actuator Air Supply

- Main: 415 kPa (60 psig)
- Operating: 41-207 kPa (6-30 psig)

Steam Supply

- Steam Temperature
Minimum: 127°C (260°F)
Maximum: 140°C (280°F)
- Steam Pressure
Main header: 0-97 kPa (0-14 psig)
Profiling header: 41-69 kPa (6-10 psig) typical



Control zone widths can be defined to meet process needs, including variable spacing at the edges. Stainless steel tubing carries pneumatic control signals to each actuator.

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