

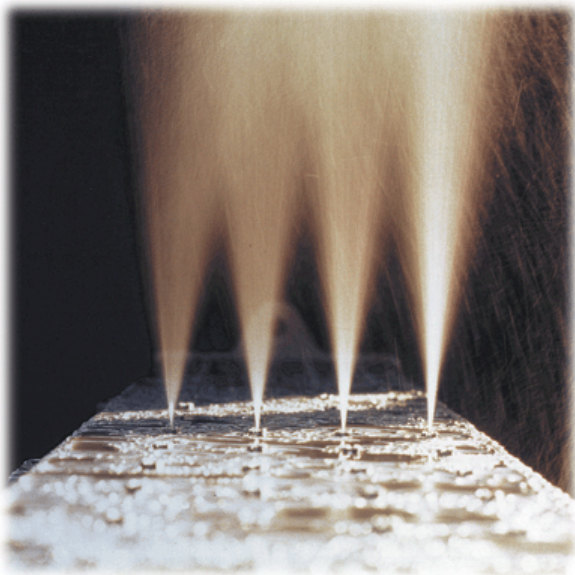
AquaTrol



The AquaTrol™ remoisturizing system provides precise cross direction (CD) moisture control by selectively applying a fine water spray to drier areas of the sheet.

By controlling the moisture profile with AquaTrol, papermakers can eliminate dry edges and increase production by reducing breaks, reducing moisture related rejects, and raising the average reel moisture. Increasing the average reel moisture enables a reduction in energy and fiber usage.

AquaTrol uses hydraulic atomizing nozzles to produce the optimum water spray pattern with application-matched total water flow and particle velocity. The flat-fan spray pattern remains stable and uniform in the dynamic air conditions of the dryer section.



Features and Benefits

- Flat fan spray pattern for streak-free remoisturizing
- Improved CD moisture profile
- Improved reel build
- Improved paper quality

- Reduced rejects
- Avoid dry edges and sheet damage due to over drying
- Control curl
- Fast recovery at start-up and after grade changes or process upsets
- Increased average moisture for fiber savings and/or reduced dryer loads

All AquaTrol components are housed in a stainless steel spray boom. The spraying surface is completely smooth to prevent paper hang up and the boom is air purged to keep the interior clean and dry.

Compact spray modules include the nozzles and digital control valves. Hydraulic atomizing nozzles provide a uniform, stable spray pattern for streak free moisture control. Nozzle sizes and flow rates are customized for the application. Digital control provides precise regulation of the water flow to each profiling zone. Maintenance is easy with modular spray blocks and quick disconnect style nozzles.

The dry, temperature controlled environment in the AquaTrol spray boom ensures reliable long-term operation. The AquaTrol comes prewired for easy installation. Mounting and optional retraction mechanisms are custom engineered to fit the machine.

The AquaTrol system includes a Profile Manager which provides the interface between the supervisory control system (QCS) and the spray modules.

The optional Honeywell water control unit maximizes the efficiency of the AquaTrol system by providing the spray boom

with a constant supply of filtered water at the optimal pressure and temperature.

Custom Design Options

- Steam heated drip tray for above sheet applications

Standard Options

- Quick disconnects for spray block assemblies
- Pneumatic retraction
- Water Control Unit

Specifications

| Category | Specification - AquaTrol Model 9550-1 |
|--------------------------------------|---|
| Spray Module Body Material | 316L stainless steel |
| Spray Module Solenoid | 24 VDC standard |
| Spray Boom Material | 316L stainless steel |
| Actuator Zone Width | 70mm - 150mm (2.8 – 6 inches) standard |
| Water Pressure and Temperature | 415 kPa (60 psi) 60°C (140°F) maximum |
| Air Purge | Recommended volume: 2.5 m ³ min. per meter CD width (27 cfm per foot CD width) Pressure: 50-100mm H ₂ O (2-4 inches H ₂ O) Temperature: 40°C (100°F) maximum |
| Spray Boom Retraction (optional) | Epoxy coated mild steel standard. Available as slide or pivot (up to 500mm/ 20 inches standard retraction). |
| Retraction Air Pressure Requirements | 415 kPa (60 psi) minimum |

More Information

For more information on AquaTrol, visit www.honeywell.com/ps or contact your Honeywell account manager.

AquaTrol is a trademark of Honeywell International Inc.

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