

Devronizer



The Honeywell Devronizer® is the industry's premier choice in steam shower technology for hot pressing and cross direction (CD) moisture profiling results.

Hot pressing with a Devronizer provides the most effective means to improve dewatering. Steam is the most efficient heat transfer medium due to its high latent heat of condensation and its availability in the paper mill.

Devronizer is the leading technology for applying steam to a moving web. Its ability to put heat into the sheet economically increases water removal in the press and reduces dryer usage for increased production and energy savings.

Devronizer also controls the CD moisture profile by selectively applying steam to the wetter areas of the sheet in response to the measured profile. Reducing CD moisture profile variation with Devronizer allows the papermaker to increase moisture targets to save fiber and improve the overall quality of the paper.

Each Devronizer is custom designed for trouble free installation at the optimum wet end location. It can be applied close to the press nip, maximizing heat transfer and close to

the web for maximum air doctoring. It is the only steam shower that is designed for all paper grades and all machine configurations. Honeywell offers unmatched experience in customizing systems for all applications and paper grades.

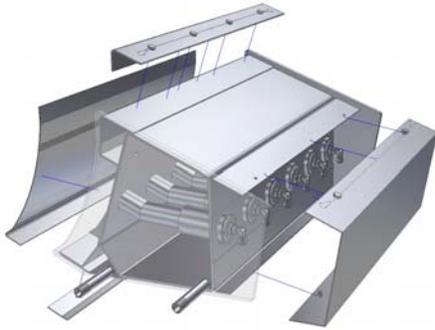
Honeywell has been the leader in steam shower technology for over 35 years, with over 1,600 installations worldwide, in all applications. Features like the compact cross section, intelligent XP10 actuators, steam conditioning system, patented removable screen plates, and advanced CD control software, coupled with Honeywell's unparalleled reputation for providing increased profitability, make Devronizer the best choice for steam shower technology.

Features and Benefits

- Save money in energy and fiber
- Improve quality through moisture profiling
- Improve reel build and runnability
- Improve break recovery
- Improve sheet consolidation without increasing nip load

The Devronizer's formed cross section ensures a stronger, lighter beam with minimal beam deflection. The XP10 actuators are inserted completely into the steam header, preventing condensation of steam within the actuator, and reducing the cross section, enabling installation into tighter press section applications.





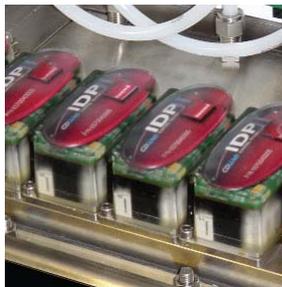
The patented screen plates are custom designed to distribute steam evenly at the optimum, application-matched velocity. They are engineered to prevent fibers from entering the Devronizer, and are removable in Couch, Press and Yankee applications. Adjustable edge deckles are included, when required to facilitate frequent heating width changes.



The XP10 actuator with Inconel bellows is designed to last the life of the Devronizer. It is completely sealed and maintenance-free, with no elastomer seals or diaphragms to replace.

The XP10 Actuator precisely regulates steam flow to each CD profiling zone, which can be as narrow as 50mm (2 inches) without having to offset the actuators. Backed by a 15 year warranty, the XP10 actuator is a fully welded assembly with a unique Inconel 625 internal bellows that offers exceptional corrosion resistance, suitable for the high-temperature, corrosive environment of the paper machine. The actuators are covered by a canopy to provide additional protection.

Each profiling Devronizer system includes a CDWeb™ which provides the interface between the supervisory control system (QCS) and the Intelligent Distributed Pneumatic (IDP) Modules. The easy-to-use CDWeb



Explorer software is used for actuator configuration, tuning, advanced diagnostics and troubleshooting.

The Intelligent Distributed Pneumatic (IDP) Modules are the interface to the profiling actuators, mounted close to the Devronizer. CDWeb technology is embedded into the IDP Modules to facilitate control at the steam shower, reducing both cabling and tubing requirements. IDP and CDWeb provide local control, communications and diagnostics for all XP10 Actuators, enhancing system performance. When coupled with IDP Scout, the health of the XP10 actuators is monitored automatically during sheet breaks or shutdowns, providing peace of mind to the customer by ensuring the actuators are operating at their optimum efficiency.

The optional Honeywell Steam Control Unit (SCU) is a custom-engineered system which uses a steam conditioning valve to ensure the Devronizer performs at maximum efficiency. The SCU ensures that steam is delivered to the Devronizer at optimum temperature and pressure to enhance grade-specific performance. A temperature sensor at the end of the Devronizer offers the potential for fine tuning steam delivery temperature.

Standard Options

- Stainless steel mounting brackets
- Stainless steel retraction cylinders
- Steam Control Unit (skid-mounted, pre-piped system)
- Steam Control Unit (kit for customer assembly)
- Wad deflector for ENP applications
- Quick Disconnect Assembly

Custom Design Options

- Steam evacuation ducts
- Custom mounting bracket extensions, floor stands or Devronizer removal equipment
- Metallurgy upgrades on select external surfaces to provide additional protection from corrosive elements (available materials may include 254 SMO®, AL6-XN®, 904L)

Specifications

Category	Specification – Devronizer Models 9220-1, 9230-1, 9260-1, 9270-1, 9290
Main Body Material	316L stainless steel
Main Body Steam Requirements	Pressure: 103 kPa (15 psi) maximum Temperature: 125°C (260°F) minimum Normal operating conditions: 14-69 kPa (2-10 psi), 125-135°C (260-280°F)
Actuator Air Requirements	40-210 kPa (6-30 psi) instrument air
Actuator Pneumatic Tubing (included)	Internal PTFE (Teflon®) External PTFE (Teflon®) housed in flexible conduit (up to 3 meters/10 feet standard)
Actuator Zone Width	50mm minimum without offsetting Narrower zones available, subject to space
Mounting and Retraction (included)	Epoxy coated mild steel standard. Available as slide or pivot (up to 100mm/ 4 inches standard retraction). Stainless steel upgrades available.
Retraction Air Pressure Requirements	415 kPa (60 psi) minimum

Devronizer is a registered trademark of Honeywell International Inc.

More Information

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

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