

Traversing Shower Systems

Applications

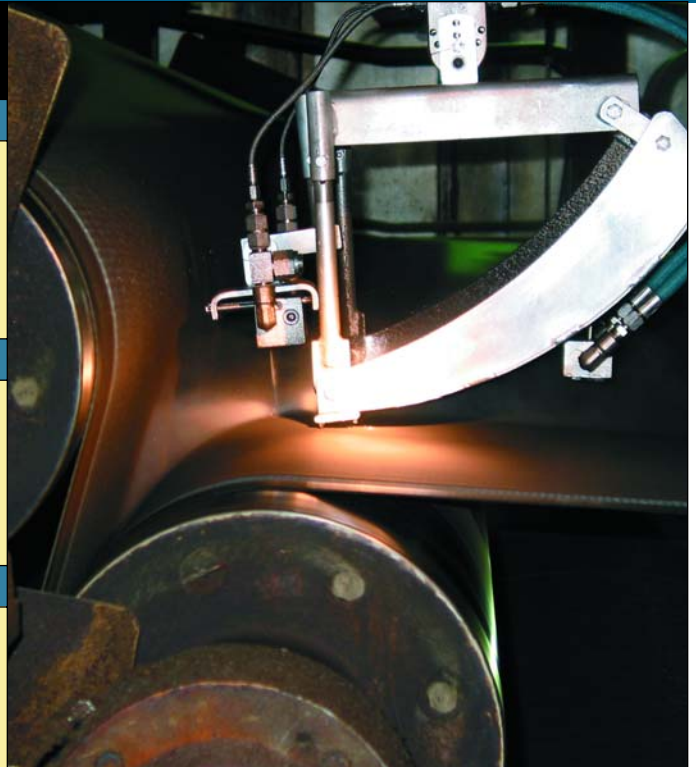
VersaKleen traversing shower systems are designed for effective and efficient cleaning of forming, pressing and dryer fabrics. The VersaKleen shower system uses less water than full-width showers, minimizes mist, reduces water load in press nips, and eliminates wet streaks on dryer fabrics.

Features

- ▶ Compact, corrosion-resistant design
- ▶ Easy to install, operate, and maintain
- ▶ User-friendly LCD display programming
- ▶ Operating temperature up to 300°F (149°C)
- ▶ Cleaning pressure up to 5,000 psi (345 bar)

Benefits

- ▶ Improved fabric life and performance
- ▶ Reduced water usage and effective cleaning
- ▶ Effective removal of recycled stickies
- ▶ Increased productivity and uptime



Better cleaning for new fabrics and furnishes

Clean, permeable fabrics are essential to consistently produce a quality sheet. The new forming and press fabric designs must be kept cleaner to maintain drainage needed to produce a uniform, high quality sheet. At the same time, increased use of recycled furnish means higher levels of contaminants, especially hard-to-remove materials like stickies.

The VersaKleen traversing shower system was designed for conditions like these. Depending on cleaning requirements, the VersaKleen system uses up to five water jets or fans to dislodge and wash contaminants off the fabric. The high-pressure, low-volume nozzles provide thorough and efficient cleaning.

VersaKleen DPF™ and HSF™ Systems

VersaKleen DPF is for dryer, press, and forming applications requiring low speed cleaning. The HSF version is for forming applications that require high speed cleaning. The VersaKleen traverses between 0.5" – 120" (12 mm – 3048 mm) per minute. Benefits include:

- ▶ More complete and consistent forming, press, and dryer fabric cleaning improves productivity and product quality.
- ▶ Substantially reduced water consumption and mist, especially on top wire formers.
- ▶ Robust, compact design including stainless steel structure, Servo motor coupled to lead screw. No traversing electronics, chains, or belts.

- ▶ System is designed for specific machine configuration and width.
- ▶ Shower speed is synchronized to fabric speed.

VersaKleen D™ Systems

For use in applications where debris collection is necessary in the dryer section. Benefits include:

- ▶ Uses extremely high-pressure, low-volume water to remove the most stubborn contaminants – without streaking the sheet or damaging the dryer fabric.
- ▶ Withstands temperatures to 300°F (149°C) – no cooling is required for most applications.
- ▶ Lower water and power consumption than full-width shower systems.
- ▶ Automatically detects plugged nozzles or ruptured hose and switches to a new nozzle bank, when used with the Unigy™ pump system.
- ▶ Includes a self-contained water filter, safety shut-off solenoid valves and pressure relief valve.
- ▶ A simple mechanical debris collection system is available with all VersaKleen systems.

VERSAKLEEN SYSTEM

System control options

Precisely control speed, and stop/start from keypad or discrete I/O interface.

- ▶ Configure parameters from control panel keypad or Modbus 485 interface.
- ▶ LCD display (4 lines x 20 characters) allows quick viewing of status of motor amps, linear velocity, position, etc.
- ▶ Water shut-off safeguard included to protect fabric if motion stops.
- ▶ Plug-in control module designed for quick and easy maintenance.
- ▶ Nema 4 control enclosure.
- ▶ On/Off power switch and alert light on panel face.
- ▶ Membrane keypad for menu navigation and data entry.
- ▶ Cool-running oversized heat-sink for extended board life.
- ▶ Service odometer aids in scheduling preventive maintenance.
- ▶ Analog output allows motor amps to be remotely monitored to indicate a shower system problem such as worn bearings or misalignment.
- ▶ Programmable I/O for supervisory control.



VersaKleen D installed on recycled corrugating medium dryer fabric.

Unigy™ pumping system

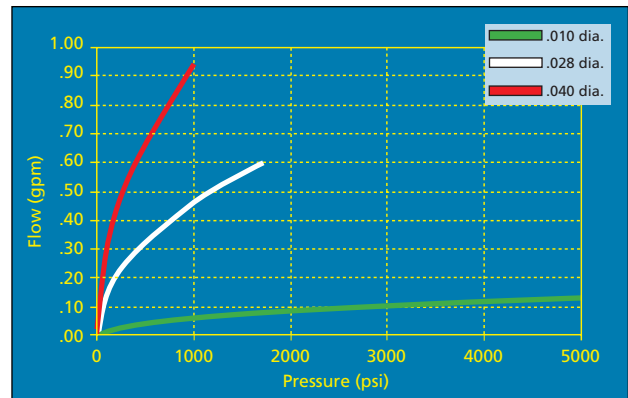
All VersaKleen shower systems can be supplied with the patented Unigy high pressure pumping system. Unigy pumping stations produce constant pressure through the pump at the flow rate demanded by the shower. System advantages include:

- ▶ Consistent pressure regardless of the number of shower nozzles in use.
- ▶ Water pressure up to 5,000 psig (345 bar).
- ▶ Improved energy efficiency.
- ▶ Ability to sense plugged nozzle or burst hose.
- ▶ Reduced pump cycles, reduced water consumption.
- ▶ Reduced noise.

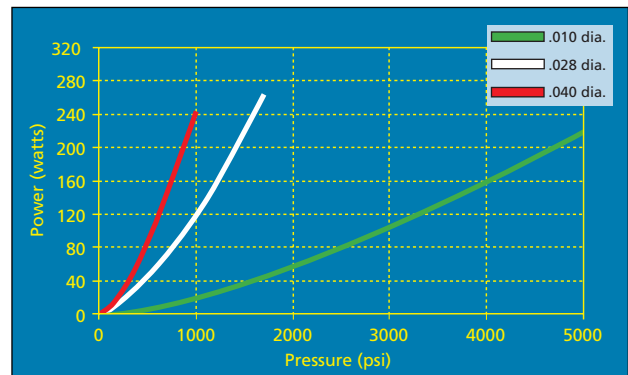


Unigy pumping system supplies shower water up to 5,000 psig (345 bar).

Flow Vs. Pressure



Energy (Power) Vs. Pressure



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