

Liqui-Filter™

Pressurized Fiber Filter

Complete process stream filtration
and fiber scalping



Small design footprint and
in-line piping capabilities

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Applications

The Liqui-Filter Pressurized Fiber Filter provides a proven and economical method to separate fiber and debris from dilute process streams. It combines Kadant Black Clawson's years of experience in designing and building reliable pressure screens with the mostcurrent technology in producing very small perforated openings for highly efficient filtration.

Features and Operation

The Liqui-Filter processes dilute flow streams and can effectively divert fiber and debris from pulp mill evaporators, pulp and paper mill showers, clarifiers, etc. The Liqui-Filter's small design footprint and in-line piping capabilities make it an ideal machine for complete process stream filtration and fiber scalping. Its patented bottom inlet and upflow design protects the cylinder and rotor from any damage caused by gross contaminants entering the screen body. Heavier debris is rejected in the bottom without ever entering the screening zone.



Benefits



Smart Engineering

Totally enclosed pressurized design allows for efficient "in-line" continuous operation



Configurable options

Model sizes available to suit any application flow requirement

Operation can be enhanced with standard controls and other automated features



Easy Maintenance

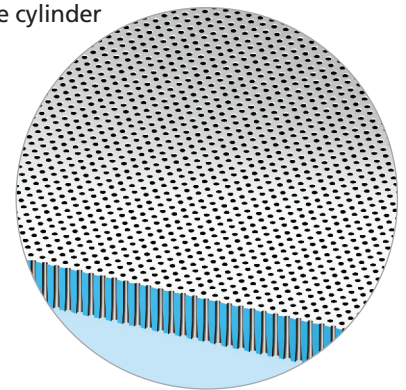
Spare parts compatible with the Kadant Ultra-V™ pressure screen line to reduce maintenance costs



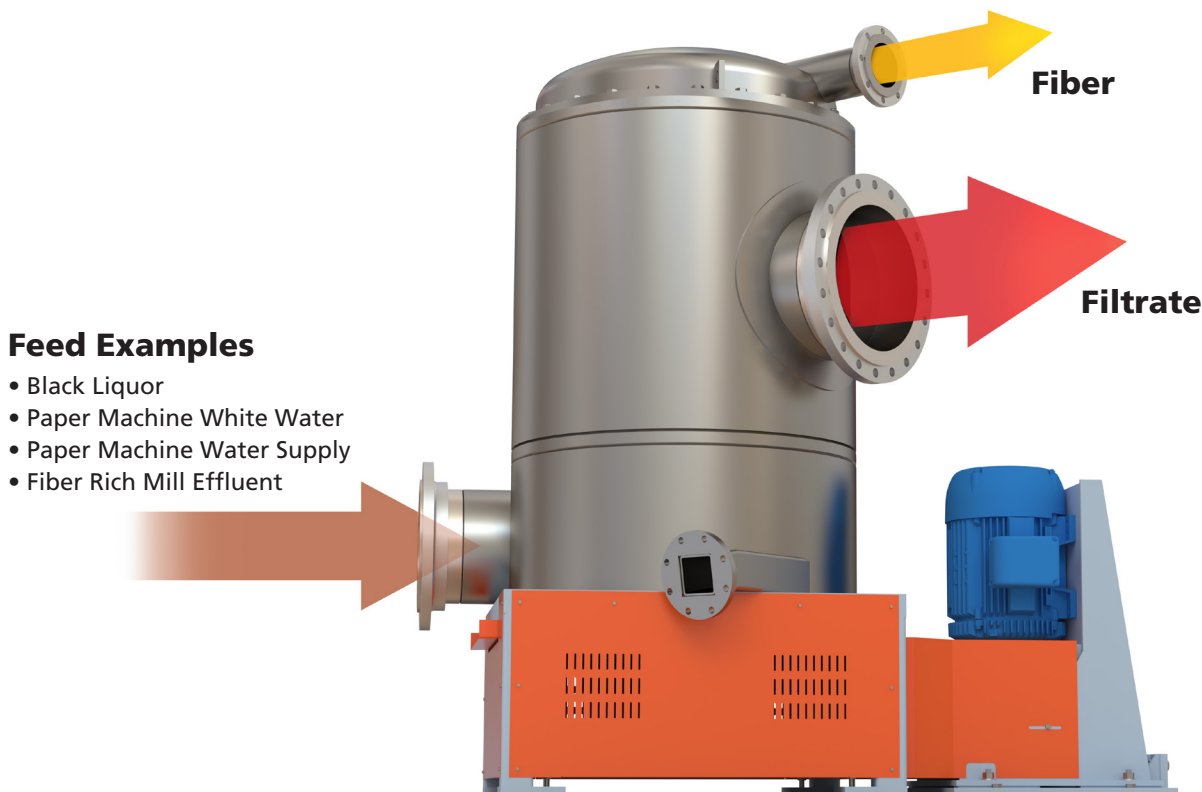
Unsurpassed strength

Heavy-duty construction provides long life

The Liqui-Filter uses the K-Tek™ Liqui-Filter screen cylinder, which is precision manufactured with perforations ranging in diameter from 0.004" to 0.010" (0.10 mm to 0.25 mm). The cylinder is constructed of stainless steel and is designed for extended life and superior performance.



Effectively divert fiber and debris from pulp mill evaporators, pulp and paper mill showers, and clarifiers



Feed Examples

- Black Liquor
- Paper Machine White Water
- Paper Machine Water Supply
- Fiber Rich Mill Effluent

The perfect option for your application

Model		Inlet Diameter	Filtrate Discharge Diameter	Fiber Discharge Diameter	Dimensions				Application Data				
									Min./Max. Power*			Shipping Weight	Operating Weight
100	in.	8.0	8.0	4.0	56.0	62.0	39.0	82.0	HP	25-75	lb.	5417	6639
	mm	203	203	102	1420	1575	990	2083	kW	19-55	kg.	2457	3011
200	in.	10.0	10.0	4.0	67.3	75.0	39.0	82.0	HP	40-125	lb.	5910	7409
	mm	254	254	102	1710	1905	990	2083	kW	30-95	kg.	2680	3360
300	in.	12.0	12.0	4.0	76.0	90.5	39.0	82.0	HP	50-150	lb.	6413	8291
	mm	305	305	102	1930	2300	990	2083	kW	37-115	kg.	2908	3760
400	in.	14.0	14.0	4.0	83.5	108.3	45.0	95.0	HP	75-250	lb.	9691	12272
	mm	356	356	102	2120	2750	1145	2415	kW	55-190	kg.	4385	5566
500	in.	16.0	18.0	6.0	104.4	132.6	51.0	111.0	HP	125-300	lb.	14300	19434
	mm	406	457	152	2650	3370	1295	2820	kW	95-225	kg.	6485	8814

*HP range for rotor; Peripheral speeds of 3,000-4,600 FPM

Note: Liqui-Filter technology is available for all TBC pressure screen lines. For applications regarding very small process streams, inquire about our compact mini-screen Liqui-Filters with direct coupled motors (Ref. MB-348)

A Trusted Partner

Stock preparation is in our DNA. We know this industry like few others – your equipment, your processes, and your challenges. We have the know-how and tools to elevate the efficiency of your production. Our team can help monitor, maintain, and upgrade your line, providing process improvements, replacement parts, rebuilds, and comprehensive maintenance plans.

We understand what it takes to remain competitive, protect your investment, and extend the life of your stock preparation assets. To that goal, we offer:

- Field services, inspections, and audits
- Rebuilds and retrofits
- Upgrades and modernizations
- Maintenance and service contracts
- Process control solutions
- Replacement upgrades and spare parts

Certified Parts and Service 24 Hour Hotline for North America: 1-800-448-5422

Expertise to Empower You

Our team is there for you at every step. We help you select the right options to best meet your specific needs.

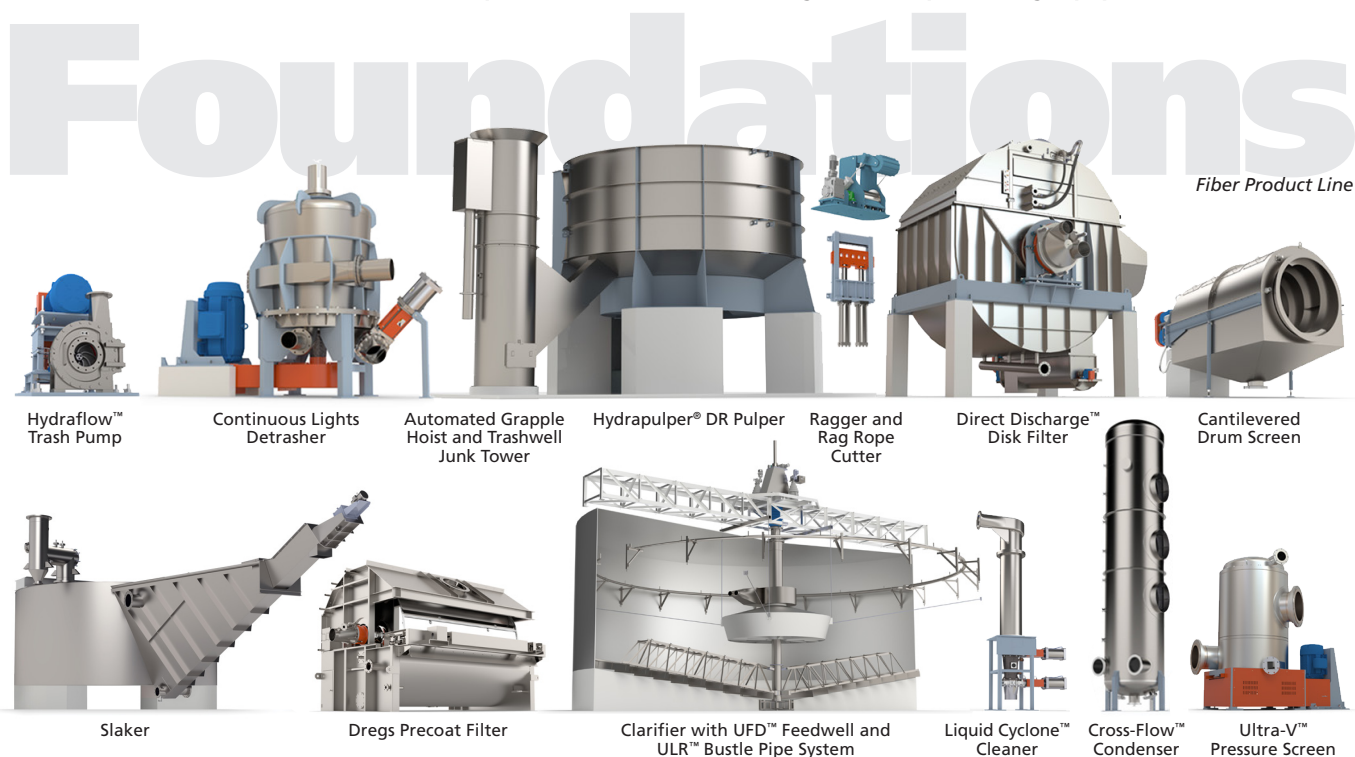
We have generations of experience, a history of innovation, and a proven record of success across the globe. Our skilled engineers, process professionals, application experts, manufacturing, and field service teams have thousands of successful installations to their credit.

Get You Running, Keep You Running

Our technical service and support teams are ready. We provide superior guidance in the planning, design, engineering, installation, and start-up of your systems. Our products and expertise cover the full range of stock preparation and pulping, including:

- Pulping
- Screening
- Cleaning
- Thickening
- Deinking
- Detrashing
- Refining and dispersing
- Reject handling
- Recovery systems
- Heat transfer
- Pulp washing
- Recausticizing

The Kadant Black Clawson **Foundations** product line offers a full range of fiber processing equipment and services.



For patent information about this and other Kadant products visit <https://kadant.com/en/patents>

KADANT

fiberprocessing.kadant.com Kadant is a global supplier of high-value, critical components and engineered systems used in process industries worldwide.

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