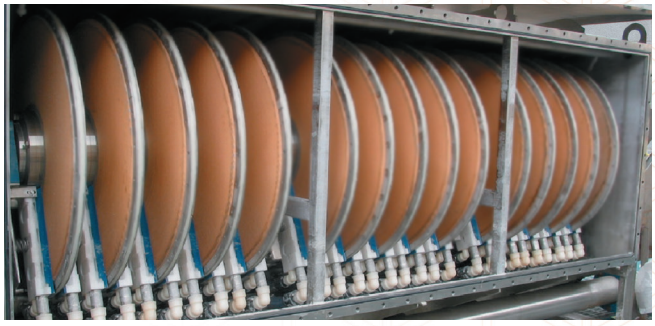
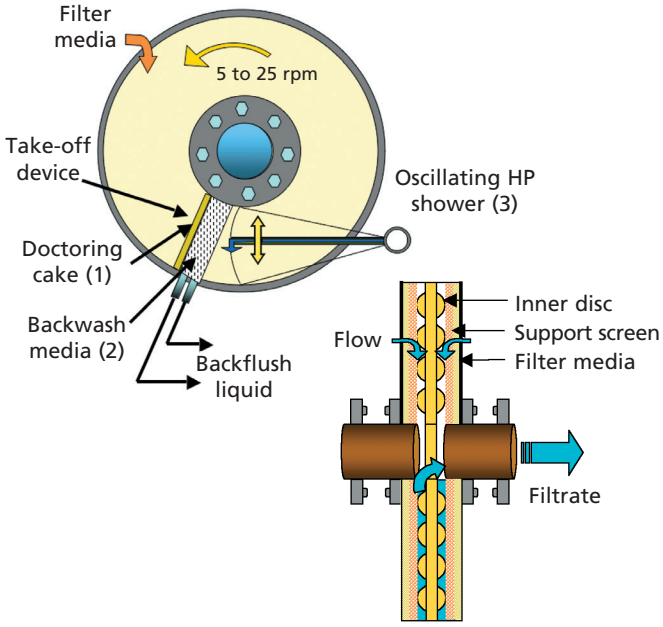
Petax™ Fine Filtration Technology



How does the Petax filtration system work?

- Vessel is full of process water and operates at low pressure less than 2.5 psig (0.1 to 0.3 bar)
- Disks are completely submerged and slowly rotate
- Rotation speed increases to maintain low vessel pressure controlled by transducer monitoring pressure
- Clean filtrate passes through the media to central hollow shaft
- Disks are continuously cleaned in three stages:
    1. Filter cake is doctored off and pumped away (if necessary)
    2. Clean filtrate is pulled back through media removing debris
    3. Oscillating high pressure, submerged shower cleans the media



Overview

Features

- Patented filtering technology
- Three-stage media cleaning system
- Unique engineered filter medium
- Filtrate quality less than 20 ppm
- Particle removal less than 20 micron in size
- No chemicals or flocculants required

Benefits

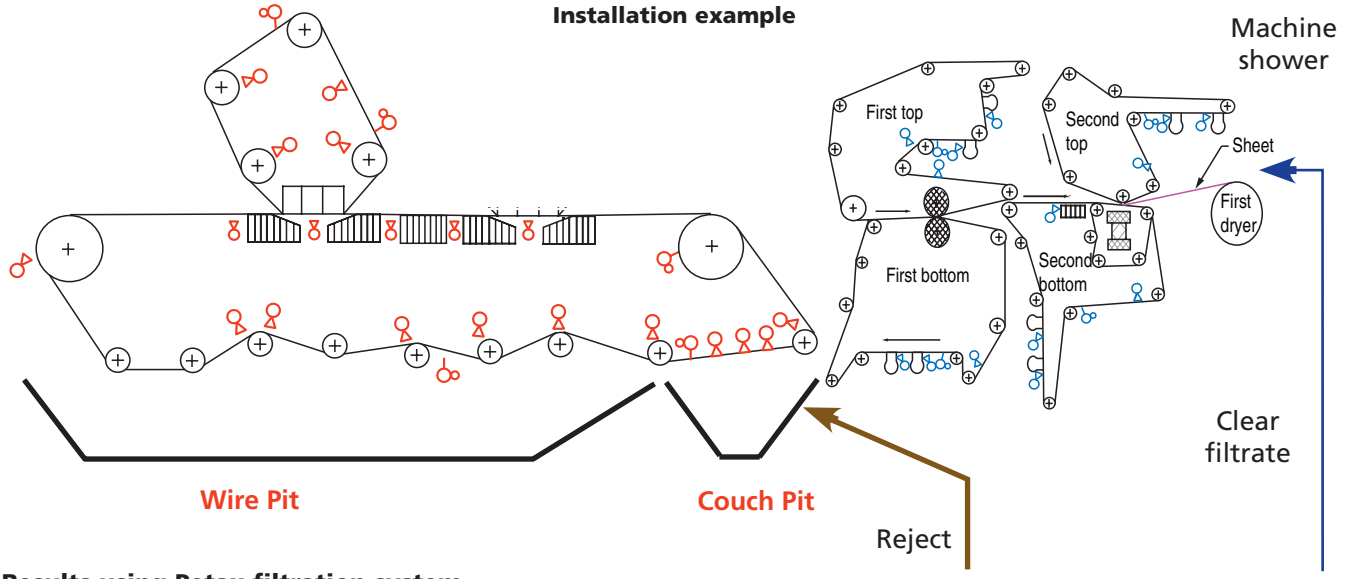
- Water and treatment costs savings
- Heat, fiber, and chemical savings
- Reduce municipal treatment plant charges
- Eliminate plugged nozzles
- Improved machine cleanliness

Applications

- Clear leg save-all whitewater
- DAF and Clarifier Filtrate
- Reuse whitewater on wet-end and press section showers
- Effluent solids reduction
- Cooling tower water

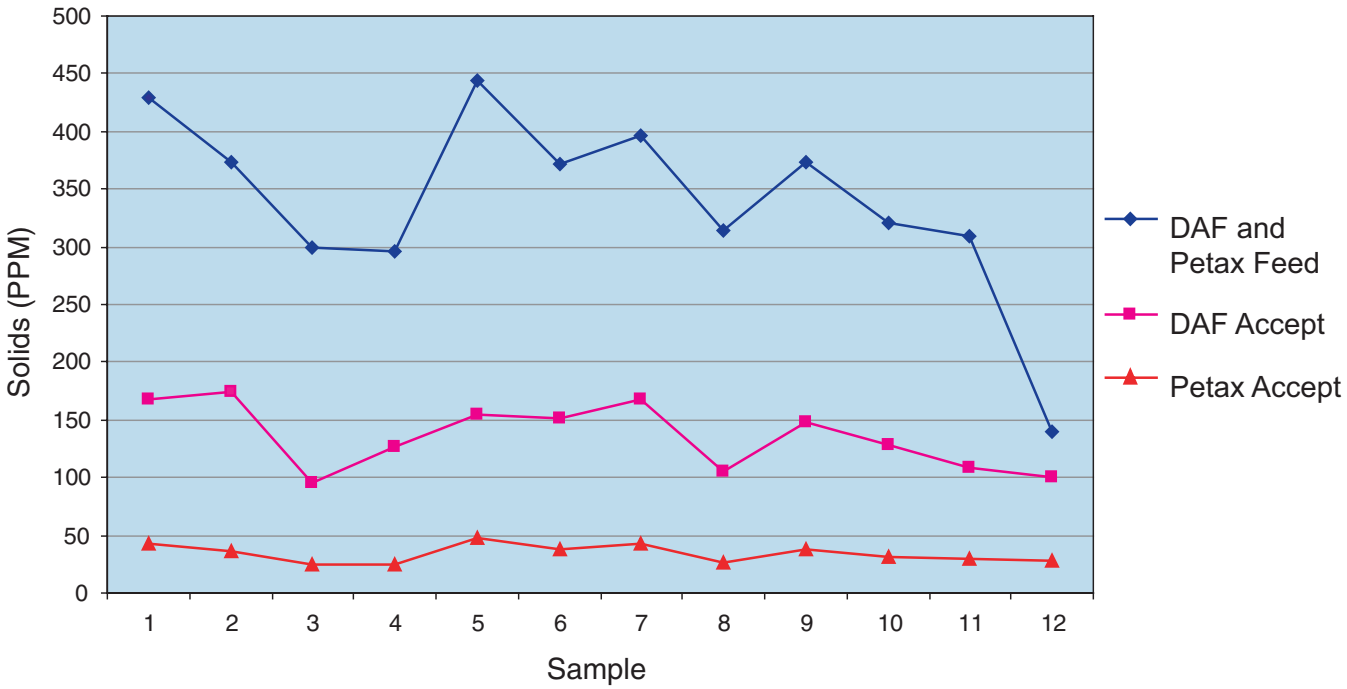
Application and Results

Installation example



Results using Petax filtration system

Petax vs. DAF @ 100% OCC recycled corrugating medium mill



Model Ref. Drawing	A Height	B Depth	C Width	Dry Wt.	Oper. Wt.	Max. Dim.
5-Disk F10425	87.48″ 2222 mm	83.82″ 2129 mm	108.61″ 2759 mm	3,451 lbs	6,743 lbs	110″x84″x90″
10-Disk F10430	87.48″ 2222 mm	83.82″ 2129 mm	152.69″ 3878 mm	5,510 lbs	11,692 lbs	155″x89″x90″
15-Disk F10434	87.48″ 2222 mm	83.82″ 2129 mm	200.60″ 5095 mm	7,445 lbs	16,517 lbs	203″x91″x90″
20-Disk F10438	87.48″ 2222 mm	83.82″ 2129 mm	242.25″ 6153 mm	9,311 lbs	21,272 lbs	244″x95″x90″

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