

FSM® Filterscreen

Perforated Plate Belt Filter Screen

FRSIII



Dalton, Georgia

The FSM Filterscreen has the highest Screenings Capture Ratio (SCR) at 85% using 6 mm perforated plate of all 59 screens independently tested at the Thompson RPM facility in the UK.



FSM® Filterscreen - FRSIII

Perforated Plate Belt Filter Screen

Highest Capture Perforated Plate Belt Filter Screen 85% Capture at 6 mm – Independently Tested and Verified.

FSM is the #1 supplier of perforated plate, belt screens in the world with over 1500 installations worldwide since 1987.

A continuous screen belt of perforated plate panels traps solid material on the surface of the screen and moves it to the upper deflection point where a brush cleans the debris from the plate. Depending on the length of the screen, a number of strategically placed lifting tines are located on certain plate panels. These tines are designed to capture gross solids and dislodge and remove rolling matter that accumulates in front of the screen at the base of the channel.



Kenosha Wisconsin

Features

- Verified 85% screen capture ratio.
- Self-adjusting brush maintains constant contact with the screen panels. (Patent Secured).
- Brush is primary cleaning mechanism.
- Minimal water usage for cleaning.
- No upstream coarse screening required.
- Handles large quantities of grease in the flow.
- Lifting tines capture coarse solids.
- Many gravity flow CSO and Combined Flow plant installations.
- Channel recess not required.
- Suitable for outdoor operation in cold climates.
- Low maintenance costs.
- Screen is completely enclosed for odor control.
- Self-adjusting brush can be retrofit to older FSM screens.

Technical Data

- Inclination: Inclination: 85°, 80°, 75°, 70°, 60°, 50°, and 45°.
- Perforations: 2 to 12 mm.
- Channel widths: to 10 feet.
- Discharge height: Up to 36 feet (standard) – larger sizes available.
- Chain life: 7 – 8 years.
- Brush life: +5 years (replaceable in sections)
- Lifting tines: Every 10th panel.
- Space between panels: <1 mm
- 304 SS construction (316 SS optional)

Municipal and Industrial Pre-Treatment of Wastewater



Beaver Dam, WI - Lifting System

An optional screen bypass system is available. This is a hydraulic lifting system designed to raise the screen above the channel floor to allow flow to bypass the screen. Lifting the screen can be a less expensive alternative to the expensive civil work involved with constructing a bypass channel.

The lifting system is supplied with two hydraulic cylinders and a hydraulic power pack to control the cylinders. A local control station with a Screen Lift-Off-Screen Lower selector switch is supplied for manual operation of the hydraulic bypass system. The hydraulic power pack provides location flexibility which makes this a potential retrofit option.



Add a bypass without adding a channel.

Two Space Saving Screening Solutions



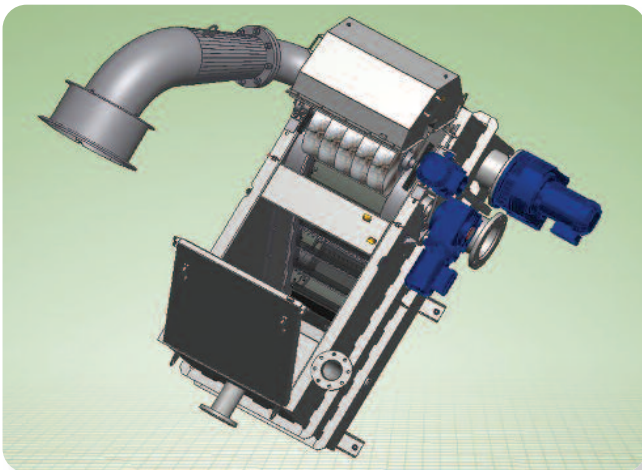
Rock River 80° Screen



Rock River Water Reclamation District

At this FSM headworks installation, gates located upstream of the screens limited the screens' angle of inclination to 80°. This posed no problem for FSM since they already had extensive experience with this type of installation and many 80° Filterscreens installed worldwide.

FSM tank units are a compact, cost effective solution to placing a high capture FRSIII Filterscreen and compactor in a single tank. The Filterscreen has the self-adjusting auto-brush and a simplified bypass tank solution.



A Pipe In, Pipe Out Solution



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