

# FSM® Dual Flow Screen

Perforated Media Screen With Outside-In Flow

FRS-DF



## Another High Capture Screen Design from FSM

The Dual Flow is a high capture, low maintenance screen for wastewater pretreatment, sludge and river/sea water screening and is the opposite of a center flow-style screen. The unscreened wastewater flows through both sides of the screen belt in an outside-In pattern. The screen surface is positioned at 90° from the flow direction. As water flows through the screen belt, solids are captured on the outside face of the screen media. The screened flow exits through the center of the screen.

The media for the screen elements can be stainless steel mesh or perforated media. The screen elements form a continuous screen belt which is cleaned by a spray bar at the upper deflection point. Depending on the solids loading, an optional brush can be added to enhance the cleaning process.

A special sealing configuration (Patent Pending) prevents solids' bypass between the individual screen elements. There is no solids carry-over to the clean (downstream) side of the channel. The screen elements and screen frame are sealed at the sides to prevent solids from circumventing the screen. Screen elements can be individually replaced for ease of maintenance.

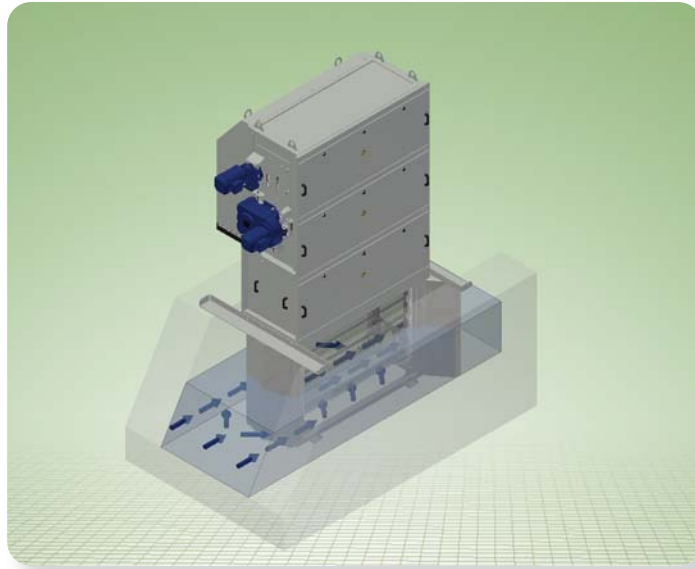
Screen elements for wastewater applications are the same rounded design as found on the FSM Filterscreen and FSM Center Flow screens. However, for water intake applications, the panels may be round, flat or an inverse curve. Special "fish buckets" can be added to the screen panels. Fish collected by the buckets are discharged separately into a holding tank.

### Features

- Easily adapts to changing conditions.
- Suitable for indoor and outdoor applications.
- No solids carry-over to the clean (downstream) side.
- Excellent screen media cleaning by spray bar and optional brush.
- Screenings are conveyed positively to the discharge point.
- Completely enclosed for odor control.
- Highly reliable and low maintenance.
- No lower sprockets / bearings.
- No lower brush seal.
- Aggressive lifters to carry out large solids.
- No solids in the center of the screen.



# Screen Operates at 90 Degrees from the Flow Direction

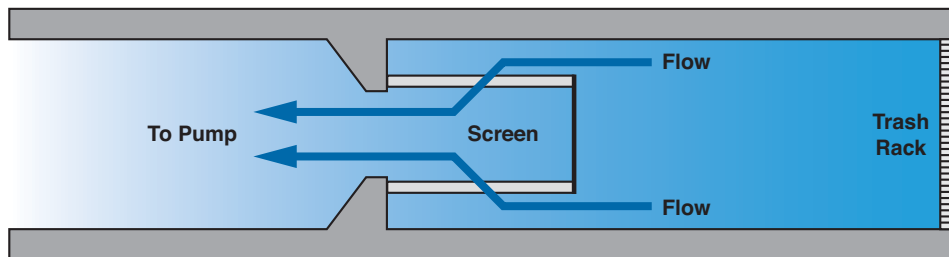


## Technical

- Screen panel widths: to 16 feet
- Discharge height: up to 50 feet.
- Perforations: 1 – 12 mm
- Mesh: 0.2 – 12 mm
- Installation angle: 90°
- 304 Stainless Steel (316 SS optional)

## Applications

- Municipal and industrial wastewater pretreatment.
- Membrane pre-screening.
- Sludge screening.
- Slaughterhouse wastewater screening.
- Intake water for power stations.
- Intake water for potable water treatment plants.



Plan view of FRS-DF in Channel.