

Perforated Plate **FILTER SCREEN**



The Kusters Water ProTechtor® Perforated Plate Filter Screen is known for its reliable operation and robust design. Capture efficiencies of the filter screen are much higher than conventional bar style screens. All ProTechtor® products are US Manufactured at Kusters Water's ISO 9001:2015 certified facility.

Features

- Rugged stainless steel construction
- Completely enclosed
- Screenings positively conveyed to discharge point
- Filter elements optimally cleaned due to precise brush contact
- Insensitive to grit and stones
- Perforated panels resist stapling effect of fibrous material
- Lifting fingers for larger particles

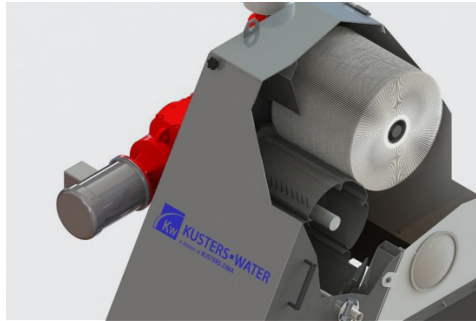
Benefits

- High reliability, low maintenance cost
- No need for upstream coarse screening
- Ability to handle high grease discharges without clogging
- Easily adapted to suit modified operating conditions

PERFORATED PLATE FILTER SCREEN



Completely enclosed for odor control and hygienic operation.



Optimized Brush Configuration for superior cleaning.



High capture rate including fats and debris.

OVERVIEW

The Perforated Plate Filter Screen eliminates operational disruptions caused by fibrous and other inorganic material. Depending on the perforated panel, the screen capture efficiency is greater compared to a bar screen. The quality of the screened effluent is noticeably improved, which in turn improves performance of downstream processes.

PRINCIPLE OF OPERATION

Wastewater flows through perforated filter elements while contaminants are captured on the face of the element. Larger objects, such as sticks, rocks, bottles, etc, are picked up from the bottom of the channel by the lifting tines at the bottom of every fifth element. The filter panels form a continuous belt which transports the screenings to the discharge point where they are cleaned from the panels by a rotating brush and high-pressure spray wash system. The screenings are then discharged into a dumpster, conveyor, or screenings washer compactor.

Dimensions

- Channel widths from 1 to 10'
- Standard channel depths to 36'
- Filter element perforations of 3, 6, and 10 mm are standard (other sizes on request)
- Angles of inclination: 50°, 60°, and 75°

Material

- Frame: 304 or 316 stainless steel
- Filter Element: 304 or 316 stainless steel
- Chain: Wear resistant 304 or 316 stainless steel
- Sprockets: Wear resistant steel, wear resistant 304 or 316 stainless steel
- Side Seals: UHMW plastic
- Drives: Shaft mounted helical gear



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