

A brand of
Aqseptence Group

Passavant® Step Screen PSS

The screening of municipal or industrial wastewater as a channel or tank version.



The Aqseptence Group Passavant® Step Screen PSS has set new standards in step screen technology. It has been consistently redeveloped and optimized on the basis of more than a decade of experience. Innovative ideas for the improvement of functionality, operational reliability, stability and maintainability have made the Step Screen PSS a top quality economically viable product which offers you unique advantages.

The Passavant® Step Screen PSS is mounted in a channel or tank

at an angle of approx. 50°. The solids which deposit on the lamella package are transported upwards step by step by means of an eccentric drive. Due to its own weight and the assistance of a scraper comb, the solids then drop down and are discharged into a container or delivered into a machine for further transportation or further processing. The process is controlled by the differential level control of the water level upstream and downstream of the screen.

Benefits

- High operational reliability and low operating costs
- Drive and electrics in separate stainless steel box
- Robust eccentric drive rods, no chains
- Reliable discharge of the screenings into hopper by means of stainless steel discharge comb
- Installation directly on the channel bottom or in the tank – no necessity for invert recess and / or flushing system in the base areaw

Design features

- No drive chains
- Modular frame construction
- Functional encapsulation
- Motor brake and electric overload protection

Materials

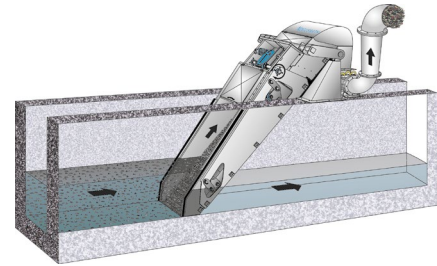
- Materials for frames, beams, drive rods, lamella:
- EN 1.4301 (AISI 304) or
 - EN 1.4404 (AISI 316 L)

Design sizes & performance

Channel width	400 – 2,300 mm
Discharge height from channel bottom	825 – 4,485 mm
Standard gap width	2, 3 und 6 mm, furthers available on request
Installation angle	approximately 50 °
Throughput	up to 10,000 m ³ /h

Options

- Supports with mechanism for swivelling without dismantling of downstream machine
- Bearings with automatic lubrication



Applications & fields of operation

The Passavant® Step Screen PSS is primarily employed in municipal wastewater screening in the

inlet of municipal wastewater treatment plants.

Unique features

- Stainless steel discharge comb
- The Passavant® Step Screen PSS operates in the counter flow principle and thus guarantees a gentle cleaning without flushing or brushes. The capture rate will improve additionally by the produced screenings carpet on the steps
- higher solid matter separation efficiency than in conventional step screens
- improved conveying performance in the base area
- protection of the lowest step lamella
- no necessity for “plastic shoes”
- improved hydraulic performance

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The technical data stated in this brochure are indicative only and have to be determined for each individual case. Reserve technical changes.