



A brand of
Aqseptence Group

Passavant® Step Screen PSS-C

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



The Passavant® filter step screen PSS-C from Aqseptence Group is mainly applied in the first mechanical cleaning stage. It is installed directly on the channel bottom or in a tank.

The liquid to be treated flows into the step screen casing being open in flow direction. Solids are held back by the lamella package. By covering the screen area with a solids layer, the open area is reduced, thus, rising the upstream liquid level. After reaching a preset differential water level the Step Screen drive motor is activated.

A spring-loaded movable bottom flap installed at the machine base prevents the sedimentation of solids underneath the movable lamella package.

During each rotation cycle, the solids held back are transported onto the next higher step of the fixed lamella package and conveyed step-by-step to the discharge. At this point, the solids are discharged into a container or transferred to a machine for further transport or processing.

Benefits

- High operational reliability and low operating costs
- Drive and electric in separate stainless steel box
- Robust eccentric drive rods
- Reliable discharge of the screenings into hopper
- No necessity for invert recess and/or flushing system in the base area

Design Features

- Modular frame construction
- Functional encapsulation
- Automatic chain tightening
- Motor brake and electric overload protection

Materials

Frames, beams, drive rods, lamella

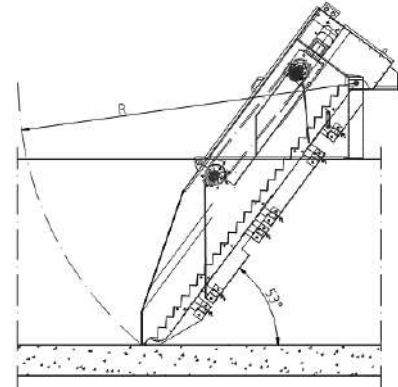
EN 1.4301 (AISI 304), EN 1.4404 (AISI 316 L)
Others on request

Design sizes & performance

Channel width	430 – 2,130 mm
Discharge height from channel bottom (4 sizes)	1,670; 2,100 mm 2,800; 3,490 mm
Standard gap size	3 and 5 mm
Flow rate	Up to 10,000 m ³ /h

Options

Supports with mechanism for swiveling without dismantling of downstream machine for better maintenance.



Applications & fields of operation

The Passavant® Filter Step Screen PSS-C is primarily employed in municipal wastewater screening in the inlet of municipal wastewater treatment plants.

Unique Features

- The Passavant® Filter Step Screen PSS-C 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
- Automatic chain tightening
- Improved hydraulic performance

Passavant® Step Screen PSS



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Version 1.1

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