

EQUIPMENT



SHAFTLESS SCREW PRESS FILTER SCREEN

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- **Efficient Solid-Liquid Separation:** Effectively removes suspended solids through continuous screening, maintaining reliable filtration performance while allowing smooth wastewater flow.
- **Reduced Screening Volume and Disposal Cost:** Optional compaction reduces the volume and weight of screenings, improving handling efficiency and lowering disposal costs.
- **Reliable Continuous Operation:** Designed for stable and uninterrupted operation, ensuring consistent performance in municipal and industrial applications.
- **Low Maintenance and Long Service Life:** Shaftless design reduces clogging and wear, minimising maintenance requirements and extending equipment lifespan.
- **Anti-Clogging Performance:** Self-cleaning brushes continuously clean the screen surface, preventing blockage and maintaining filtration efficiency.
- **Flexible Installation and Integration:** Can be installed in channels or tanks with adjustable inclination, allowing easy integration into different system layouts.
- **Compact and Space-Saving Design:** Integrated structure combines multiple functions in one unit, reducing footprint and simplifying plant design.

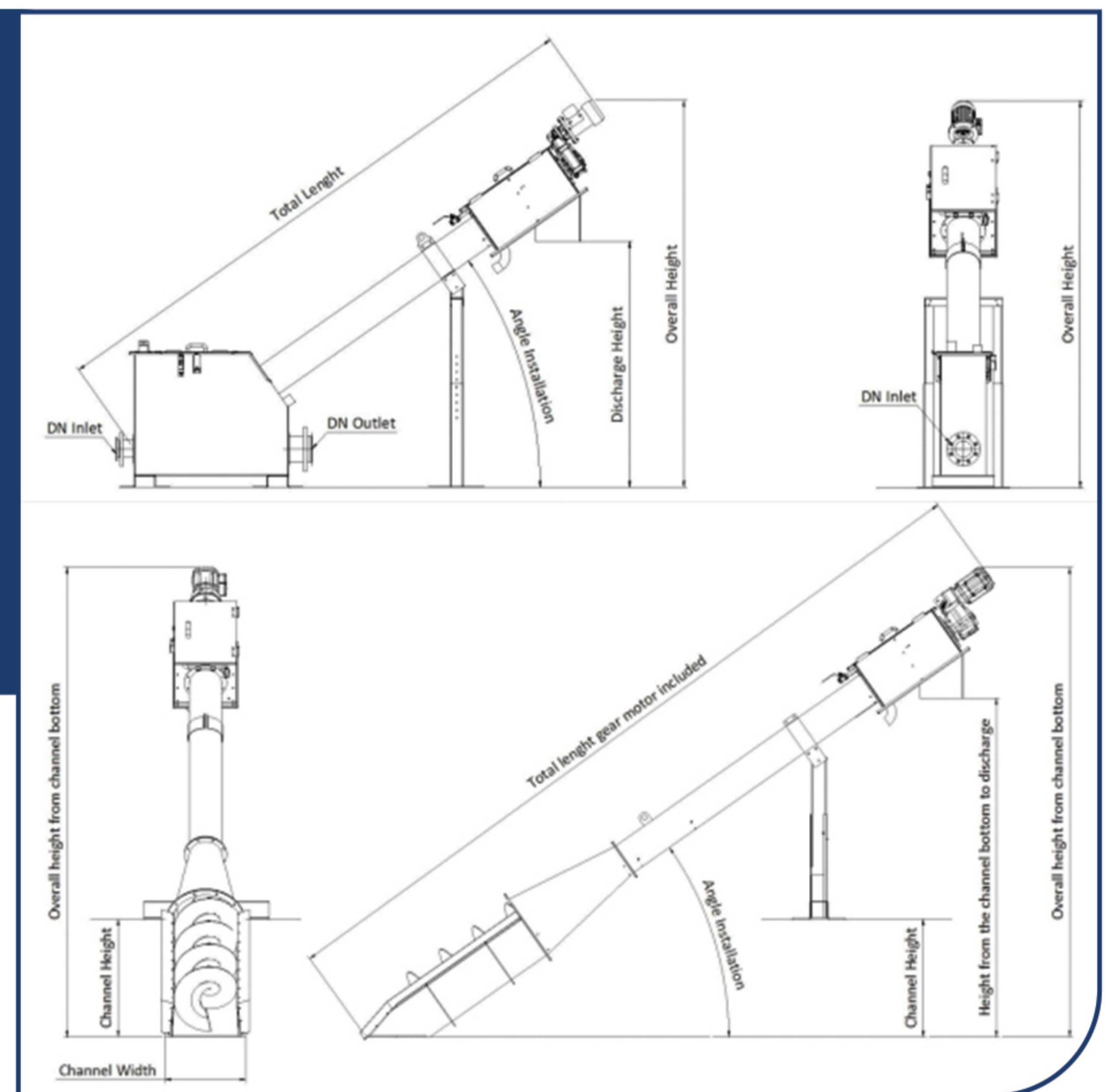


Working Principle

The Shaftless Screw Press Filter Screen operates through a combined screening and conveying process.

Wastewater enters the filtration zone, where a perforated screen panel with openings typically ranging from 1 to 6 mm retains solids while allowing water to pass through. A shaftless screw rotates within the screen, continuously transporting the captured solids toward the discharge end. During operation, brushes mounted on the screw clean the screen surface to prevent clogging and maintain filtration efficiency.

As the solids move upward, they may enter a compact zone, where additional dewatering reduces their volume before discharge. The treated water flows out of the system, while solids are conveyed for disposal.



Features

Standard Features

- Perforated screen panel (1–6 mm openings) for effective solids retention
- Shaftless screw conveyor for efficient solids transport
- Self-cleaning brush system to prevent clogging
- Integrated screening and conveying in one unit
- Optional compaction module for volume reduction of screenings
- Gear motor drive system for continuous operation
- Compact structure for easy installation

Options & Accessories


- Washing system (manual or automatic via solenoid valve)
- Channel or tank-mounted installation configuration
- Variable inclination angle design (35°–45°)
- Different screen sizes and perforation options
- Customised system dimensions and capacity

Specifications and Parameters

Model	Flow Level (mm)	Width (mm)	Screen Basket (mm)	Grinder Model	Max Flow (MGD/l/s)	Grinder Power (kW)	Screw Power (kW)
AQT-S12	305–1524	356–610	300	—	280	—	1.5
AQT-S16	457–1524	457–711	400	—	425	—	1.5
AQT-S20	508–1524	559–813	500	—	565	—	1.5
AQT-S24	610–1524	660–914	600	—	688	—	1.5
AQT-S27	762–1524	813–1067	680	—	867	—	1.5
AQT-SL12	305–1524	356–610	300	TM500	153	2.2–3.7	1.5
AQT-SLT12	356–1524	457–1016	300	TM14000	342	2.2–3.7	1.5
AQT-SLD16	457–1524	914–1524	400	TM14000d	591	3.7	1.5
AQT-SLX12	356–1524	559–610	300	TM1600	153	5.6–11.2	1.5
AQT-SLX16	457–1524	559–711	400	TM1600	245	5.6–11.2	1.5

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