

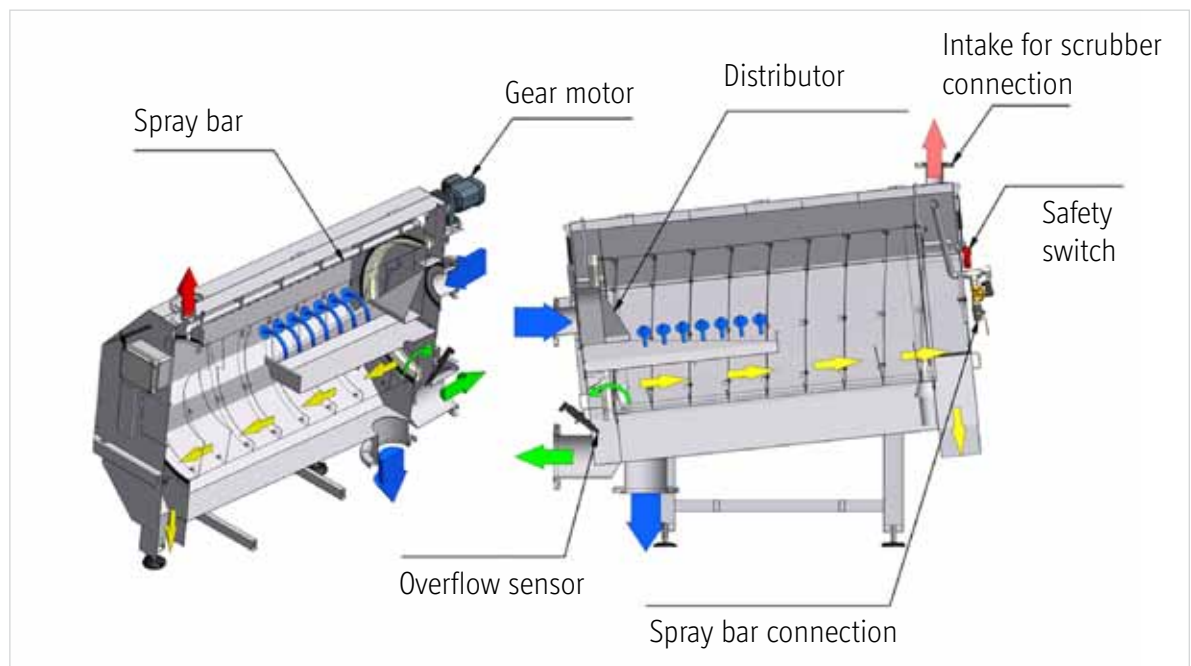


Aqualitec
Screening Equipment

DRUMTEC
INTERNALLY FED ROTARY DRUM SCREEN

Drumtec: The Easy Driven Drum Screen.

By Aqualitec.



Operating Mode:

Drumtec is an internally fed rotary drum screen. Waste-water flows into the drum. The deflector will divide the

flow evenly. Whereas the influent water goes through the perforated plate, the retained screenings are conveyed by a large flight

auger to the end of the drum. Debris will then carry over in an integrated washer/compactor or directly into a dumpster.

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Features & Benefits

1. Simply driven



(left) The gearmotor drives the motion of the drum thanks to a pinion & rack system. Made of HDPE (High Density Polyethylene) this free of chain mechanism does not require any maintenance.



(right) Oversized trunnions will support the drum and concourse to its rotation.

2. High Capture Rate



As the drum is fed internally, Drumtec catches all sorts of debris such as rocks, grits, organics, wipes, rags, fibers...The perforated plate provides a high capture rate. As low as 800 microns the drum is a great solution for fine screening, specifically whith a MBR system.

3. Easy & Safe Access



For an easy and safe access, the cover can be opened by using the lift handle on each side of the drum. Covers are setup on hydraulic verrin, so that 1 operator can proceed to the operation. A safety switch will automatically stop the drum.



Features & Benefits

4. Integrated Bypass



An integrated bypass can be provided. A sensor will stop the drum and the overflow will go to a tank containing a manual rack.

5. Minimal & Easy Maintenance



Spray bars will assure the cleaning of the drum. The weekly maintenance will then consist of visual checking of the drum and the spray bar nozzles. Nozzles are easily removable for cleaning or replacement.

6. All in one solution

For a complete treatment of the screenings, a washer compactor can be integrated directly at the discharge chute of the drum screen.





Performances

Design flow: Up to 20mgd

Space bar opening: : 1/32" to 3/4" (800microns to 20mm)

Dry solid concentration = 30 %

Volume reduction > 50 %

Design

Drumtec is customized based on specifications and/or structural constraints.
Below are some guidelines of the design requirements.

MATERIALS

304 or 316 stainless steel

Surface treatment: Scouring, Passivation

T.I.G. welding techniques

SPACE REQUIREMENTS - FOOTPRINT

Drum Length: 3.28' to 9' – 10 1/8 (1000 to 3000mm)

Drum diameter: 2.62' or 4' (800mm or 1200mm)

Height: 5' – 4 15/16 (1650mm)

MOTOR CHARACTERISTICS

Absorbed power: 3/4hp (0.56 KW)

Voltage: 240 or 480 VAC

Frequency: 60 Hz



2 Drumtec & 1 Compactec –
Ancenis, France

