



Aqualitec
Wastewater Treatment Equipment

DRUMTEC
INTERNALLY FED ROTARY DRUM SCREEN

DRUMTEC:

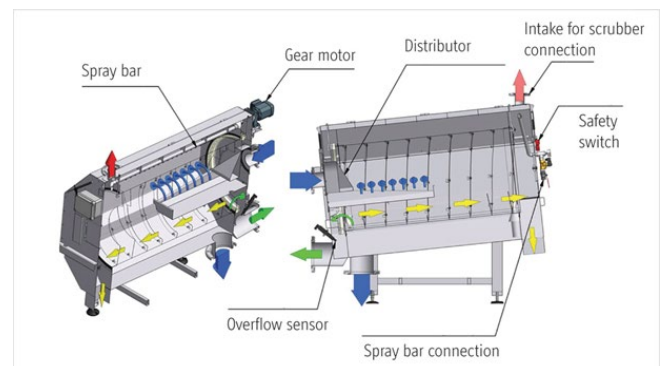
The Easy Driven Drum Screen.

By Aqualitec.



OPERATING MODE:

Drumtec is an internally fed rotary drum screen that operates by dividing wastewater evenly with a deflector as it flows into the drum. The flow then passes through a perforated plate, which screens solids from the water. Waste materials are transported by a large flight auger to the end of the drum, where they are emptied into either a built-in washer/compactor or directly into a dumpster



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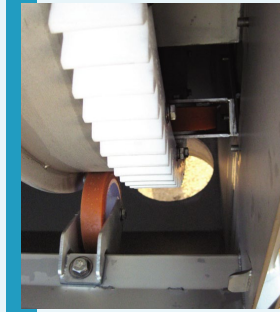
DRUMTEC
INTERNALLY FED ROTARY DRUM SCREEN

FEATURES & BENEFITS

1. Simply Driven

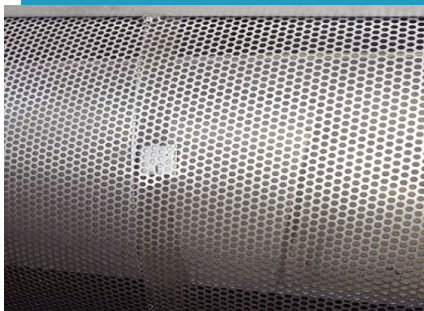


It consists of a pinion-and-rack system that is driven by a gear motor, causing the drum to rotate. This mechanism is constructed of HDPE (High Density Polyethylene) and does not require any maintenance.



To ensure stability during rotation, the drum is supported by oversized trunnions.

2. High Capture Rate



Drumtec effectively captures a wide variety of debris, including rocks, grits, organics, wipes, rags, fibers, and other materials. The perforated plate used in the system has a high capture rate, with the ability to screen materials as small as 800 microns. This makes Drumtec an excellent solution for fine screening, particularly when used in conjunction with a MBR system.

3. Easy & Safe Access



Each side of the drum cover is equipped with a lift handle for easy opening. To assist with this process, a hydraulic mechanism is in place, allowing a single operator to safely open the cover.



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4. Minimal Maintenance



Weekly maintenance of the system is minimal and only consists of visually inspecting the drum and the spray bar nozzles. If necessary, the nozzles can be easily removed for cleaning or replacement.

5. 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.

6. All-in One Equipment



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 10mgd

Dry solid concentration = 30 %

Volume reduction > 50 %

DESIGN GUIDELINES

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

MATERIALS

304 or 316 stainless steel

Perforated plate from 1mm (1/32")

Wedge wire from 250 to 750 microns

SPACE REQUIREMENTS - FOOTPRINT

Drum Length: 3' to 10'

Drum diameter: 2.6' to 5'

MOTOR CHARACTERISTICS

Absorbed power: 3/4hp (0.56 KW)

Voltage: Custom to site – 3phases

Frequency: 60 Hz



Drumtec & Compactec
Woodland, WA



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