

SAND WASHER

Sandtec

Grit separated from the flow, washed free of organics and screwed out dewatered.

Up to 550 GPM, 95% capture down to 200 microns.



Up to
550 GPM



95% capture at
200 microns



Washed grit,
fully enclosed



Call Us Today
1-855-650-2214



Email Us
info@aqualitec.com

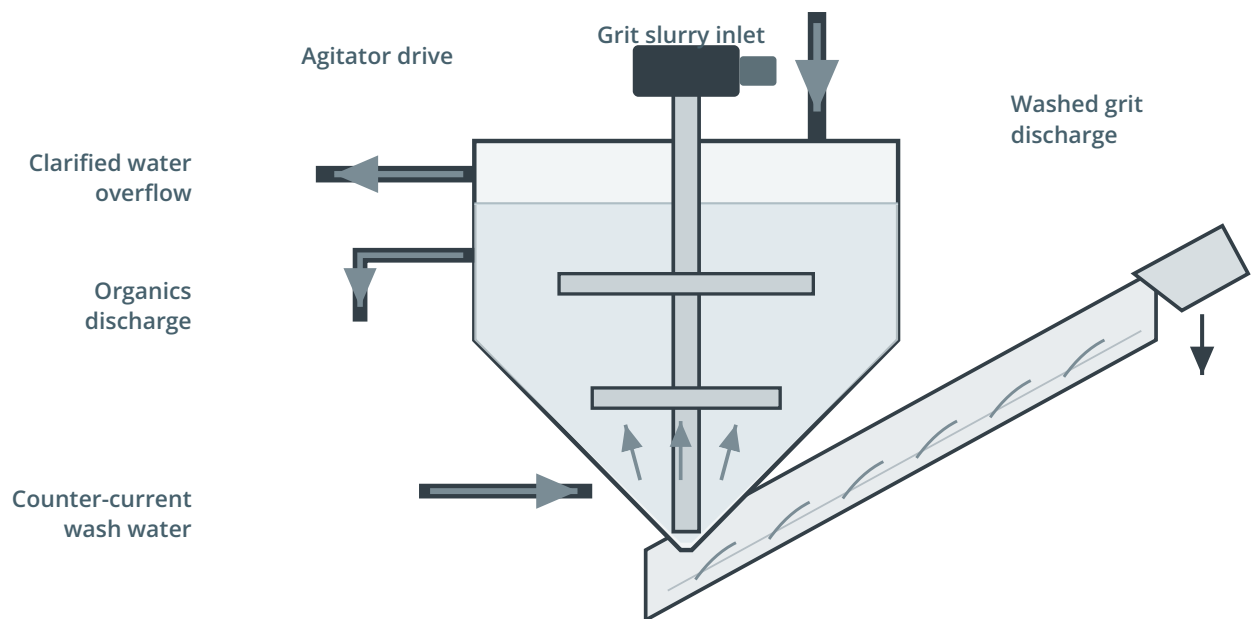


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OPERATING MODE

The sand-water mix enters a tapered settling hopper fitted with an agitator. As velocity drops, sand and heavy inorganic particles settle out while lighter organic material stays in suspension.

Clean water injected at the base rises against the settling grit, carrying organics up to a dedicated overflow. Clarified wash water leaves through a second outlet at the top, and an inclined screw lifts the washed grit out, draining as it climbs.



- 1 Settle and separate**
The agitator holds sand settling while organics stay in suspension
- 2 Wash counter-current**
Clean water rises against the grit and strips organics from it
- 3 Extract and drain**
The screw lifts washed grit out, draining it on the way to the chute

Schematic drawing. Grit leaves dewatered and low in organics, so it can go to reuse rather than to landfill, and the plant behind the washer is not handling sand.



FEATURES & BENEFITS



1 High capture efficiency

Capture runs up to 95 percent, separating particles down to 200 microns, so what reaches the plant behind it is water rather than a sand-water mix.

2 Counter-current washing

Clean water is injected at the base of the hopper and rises against the settling grit. Organics are carried back up and off the overflow, which is what leaves sand clean enough to reuse instead of landfill.

3 Integrated screw conveyor

An inclined screw runs slowly along the bottom of the tank, lifting settled grit to the discharge chute and letting it drain on the way, so extraction and dewatering happen in one pass.

4 Fully enclosed

The tank and conveyor are covered, which holds odors in, keeps operators clear of moving parts and protects the machine outdoors.

5 Access without dismantling

An inspection hatch and a drain valve are built in, so the tank can be emptied and the internals checked without breaking pipework.

6 Hydrocyclone compatible

Sandtec can be fed by a hydrocyclone where the grit arrives with a high water fraction, which lifts removal efficiency across the system.



APPLICATIONS

Sandtec classifies and dewateres grit so it leaves the plant as clean, reusable material instead of wet sand carrying organics.

Headworks

Grit washing after the grit chamber

Pump stations

Keeps sand out of pumps and pipework

Septage receiving

Grit from hauled and septic waste

Stormwater

Road grit and sand from wet weather flow

Industrial washwater

Process and produce washing water

With hydrocyclone

Combined duty on high water fraction

DESIGN GUIDELINES

PERFORMANCE	CONSTRUCTION
Flow up to 550 GPM (125 m3/h)	304L or 316L stainless steel
Grit capture up to 95%	Integrated tank and screw conveyor
Separation down to 200 microns	Fully covered enclosure
Spiral diameter 7.5 in to 14 in	Inspection hatch and drain valve

Sizing follows the grit load, the particle size to be captured and the flow arriving at the unit. Sandtec is normally fed from a grit chamber, a grit pump or a hydrocyclone. Send your flow and grit data and we will size the tank and the spiral.

ALSO FROM AQUALITEC

Grit removal

Grittec grit classifier, Vortec vortex grit separator

Screening equipment

Screenotec, Raketec, Drumtec, Spiraltec, Compactec, Washtec

DAF units

Altec, Deltec, Gamtec, Sigtec



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