

A brand of Aqseptence Group

Noggerath[®] Grit Washer GWC

More environmentally conscious disposal and significant reduction of costs by lowering the amount of organic matter in the washed grit.



Function



The grit / liquid mixture is fed tangentially into the circular grit chamber and flows into the outlet of the washing tank via an overflow weir. In the course of this circular movement, the grit sinks to the bottom of the washing tank by gravity. The circulating movement of the agitator mounted in the washing tank causes a separation of the grit into light and heavy components. The agitator fingers mounted in the lower area of the washing tank cause the grit particles to rub against each other and remove sticky organic residues through abrasion. The organic residues are washed out in an up-current flow process.

The washed grit accumulates at the bottom of the washing tank and thus creates an increase in the torque to be applied by the agitator motor. Grit is removed by the discharge conveyor when a certain density of grit has been reached – this level is set as resisting torque on the motor load monitor and the removal is carried out at pre-determined intervals.

Design sizes & performance	Түре	GWC 300	GWC 750	GWC 900	GWC 1,000
	max. flow rate	8 l/s	12 l/s	16 l/s	25 l/s
	max. capacity grit separation	0.30 m ³ /h	0.75 m³/h	0.90 m³/h	1.00 m ³ /h
	Organic matter	\leq 3 %			
	Volume reduction	up to 85 %			
	Discharge height	1,610 mm	1,610 mm	2,045 mm	2,380 mm
	Water surface	1.60 m ²	2.10 m ²	2.80 m ²	4.15 m ²
	Water volume	1.10 m ³	1.45 m ³	2.38 m ³	3.90 m ³

Materials

Tanks, covers, supports	stainless steel AISI 304 or AISI 316L Others on request
Spirals	special Micro Alloy Steel St 52 (carbon steel in acc. with AS Group standard), alterna- tively stainless steel AISI 304 or AISI 316L
Agitator arms	HARDOX and stainless steel AISI 304 or AISI 316L

Fields of operation

Municipal and industrial wastewater treatment plants:

- Grit washing (grit trap settlings)
- Grit dewatering
- Washing of sewer grit

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