Noggerath

A brand of
Aqseptence Group

Noggerath®
Grit Classifier GS

Separation of grit, sand or other settleable solids from liquids for the recovery of recyclable matter or for the avoidance of sedimentations and downstream operational problems.

The Noggerath® Grit Classifier GS has been successfully employed in municipal and industrial wastewater treatment plants for many years in processes involving the solid / liquid separation of sand /water mixtures. Our separator system has achieved excellent results for the separation of rejects within a wide range of industrial process water cycles.

The reject /water mixture, which is to be separated, is pumped into the settling tanks. The inlet area is designed to minimise turbulences which negatively affect the separation process. The flow is directed in such a way that an optimal separation of the sediments and the floating matter is assured. Due to the inclination of the walls of the settling tank, the sinking matter is directed into the spiral conveyor prior to being discharged into a container or conveyed for disposal.

Benefits

- Low maintenance due to simple and robust stainless steel construction
- High operational reliability – no pigtailing or clogging
- Low operating costs due to direct drive with low power consumption
- Low wear and tear due to low rotational speed
- High capture rate of solids

Applications & fields of operation

- Separation and dewatering
  - of grit trap settlings from municipal and industrial wastewater treatment plants
  - of cleaner rejects from the pulp and paper industry
  - of sediments from production and processing wastewater
- As a grit trap in small wastewater treatment plants
- Bunker installations for sewer grit receiving stations

Design sizes & performance

Grit Classifier Type	GS 30	GS 80	GS 100	GS 130
max. flow rate	30 m^3/h	80 m^3/h	100 m^3/h	130 m^3/h
max. capacity grit separation	1.10 m^3/h	1.10 m^3/h	1.10 m^3/h	1.10 m^3/h
Discharge height	1.550 mm	2.000 mm	2.220 mm	2.600 mm
Water surface	2.42 m^3	4.08 m^3	4.08 m^3	4.08 m^3
Water volume	0.8 m^3	1.8 m^3	3.4 m^3	3.7 m^3
Grit removal eff. (Gran. > 0.2 mm)	90 %	90 %	90 %	90 %
Dewatering efficiency	80 %	80 %	80 %	80 %

Materials

Tanks, covers and supports	stainless steel AISI 304 or AISI 316 Others on request
Wearing liners	Stainless steel AISI 304 or AISI 316, alternatively HARDOX
Spirals	special Micro Alloy Steel St52 (carbon steel in acc. with AS Group standard), alternatively stainless steel AISI 304 or AISI 316

Options

- Integrated tube diffusor for improved separation of light matter
- Washing system type FILWASH to reduce organic content
- Heating and insulation for outdoor installation / winter operations
- Continuous bagging system

Installation for dewatering of grit trap settlings GS 130

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Water Treatment Systems

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