



John Meunier SAM[®]

TYPE GFW

GRIT WASHER WITH SHAFTLESS SCREW

WATER TECHNOLOGIES

John Meunier SAM[®] Type GFW Grit Washer with Shaftless Screw

GFW Grit Washers offer a solution to separate, wash and dewater grit to protect downstream processes and improve their performance. It consists of a conical hopper set on top of a shaftless spiral screw conveyor.

Availability

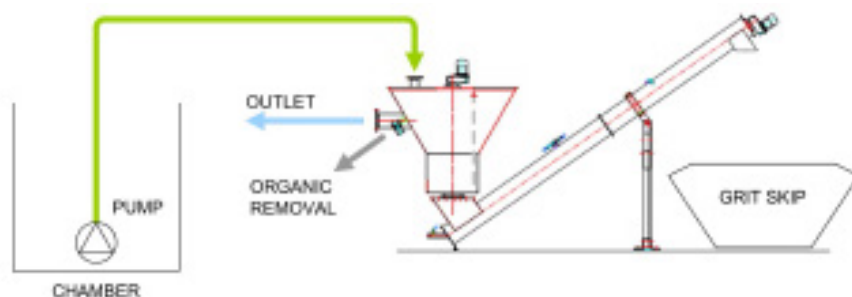
GFW Grit Washers are available in two models.
(Selection chart for reference only)

Type	Inlet Flow (GPM)
GFW/10-16-35	130
GFW/ 12-18-35	350



Operation

- The grit mixture is fed at the top of the hopper, close to the periphery where a slow coerced rotational movement is induced. This swirl movement combined with the retention time enhances the settling of particles.
- Up to 95 % removal efficiency of grit sizes ranging between 70 mesh and 60 mesh (200 μm and 250 μm) can be obtained.
- Wash water injected at the bottom of the unit with the action of a central stirrer located in the accumulated grit area, scours the settled material. The flow velocity within the hopper maintains in suspension the organic matter that has been scoured and washed off the grit particles' surface. The organic matter is discharged from the hopper at adjustable intervals. It can either be returned to the plant influent flow or onward to secondary treatment.
- Up to 97 % of organic matter reduction and up to 90% grit dewatering can be obtained.
- The settled grit is dewatered by the up lift motion of the screw then discharged at the top portion of the conveyor at adjustable intervals.
- A continuous bagging system can be fitted to the screw discharge, to provide a totally enclosed system that will enhance odor control. The bag also eliminates possible physical contact with the sealed grit.



Typical arrangement: Grit Chamber

Specifications

Fabrication

Housing and accessories: Stainless steel AISI 304 or AISI 316 on request

Spiral: Micro-Alloy steel or Stainless steel on request (AISI 304 or 316)

Liners: high density non-metallic material or stainless steel (depending on the application)

Efficiency

Grit removal up to 95% grit size ≥ 70 mesh (200 μm)

Organic matter reduction up to 97% (depending on the solids properties)

Dewatering up to 90% dryness

Typical Applications

- Municipal wastewater treatment
- Industrial effluent discharge
- Grit recovery from processing plant

Benefits

- Low odor level in the dewatered grit
- High quality and reliability
- Low costs
- Quick and easy installation

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