

Fluid Dynamic Grit Classifier GRITSEP FGC



INTERNATIONAL PATENT PENDING

THE MOST COMPACT AND EFFICIENT GRIT AND SAND CLASSIFIER

GRITSEP FGC is an innovative sand and grit classifier designed with the most advanced simulation software. GRITSEP FGC is the most compact, economical solution engineered for easy on-site assembly.

Storage, transportation costs and maintenance costs are reduced to the minimum.

GRITSEP FGC Fluid Dynamic Grit Classifier consists of a separation tank, a grit and sand extracting screw and machine supports.

In various waste water treatment processes sand removal is vital to preserve functionality of the following mechanical machines. GRITSEP FGC Fluid Dynamic Grit Classifier enables to:

- Separate sand/grit from the waste water stream;
- Extract and de-water residual solids.

Technical Features

Refers to sand with particle size $\geq 200\mu\text{m}$ and bulk density from $2.60 - 2.65 \text{ kg/dm}^3$. SINT® engineering polymer anti-wear profile improves durability of the most critical machine components, mainly if the machine is extensively used.

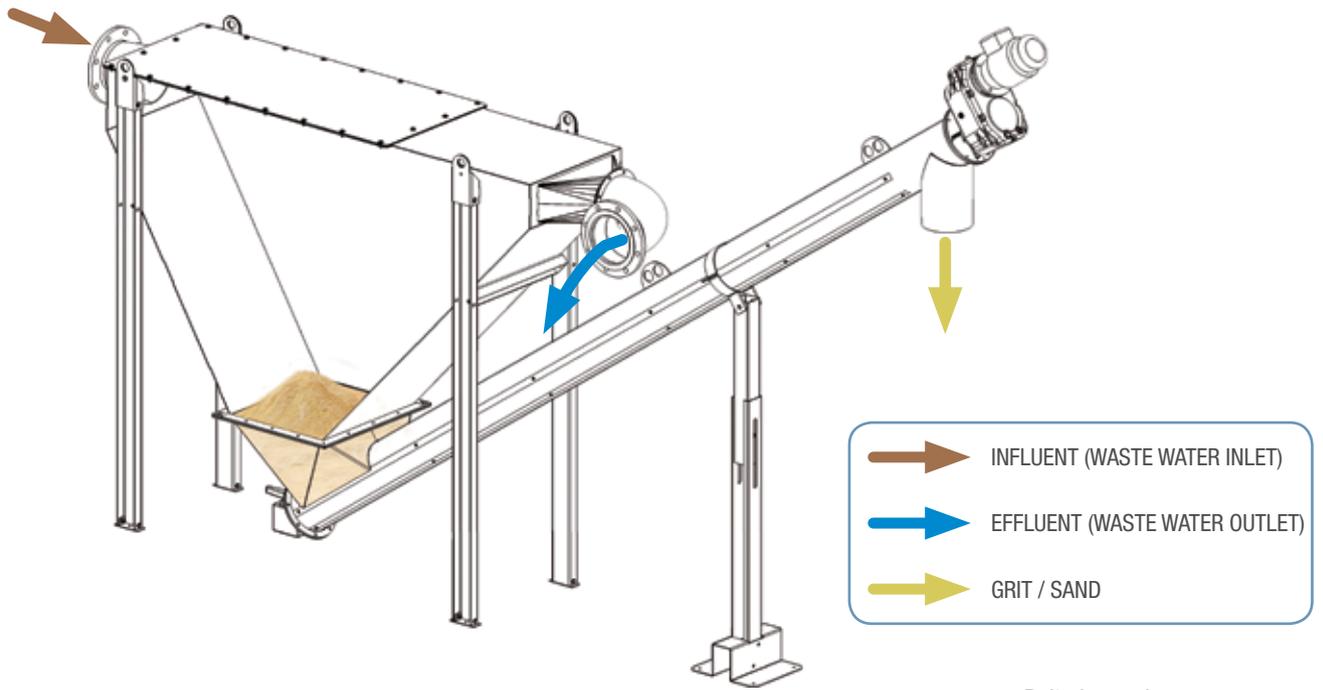
Maximum Flow Rate		Average Sand Extraction
[m³/h]	[l/s]	[dm³/s]
18	5	0.18
30	8	
54	15	
90	25	
130	36	



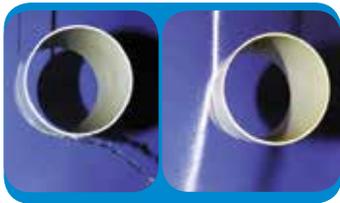
Benefits

- ✓ **Compact footprint → Reduced infrastructure costs;**
- ✓ **Easy, low cost installation using standard tools;**
- ✓ **Comprehensive product range;**
- ✓ **High separation performance;**
- ✓ **Excellent footprint-net volume ratio reduces shipping costs;**
- ✓ **Durable heavy-duty shaftless screw;**
- ✓ **Easy maintenance thanks to bolted wear bars;**
- ✓ **Durable, high-density SINT® engineering polymer anti-wear profile (option);**
- ✓ **Endless tube for odour reduction (option).**

Process Description



Fluid dynamics



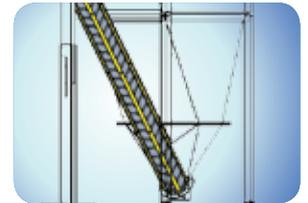
Extracting screw



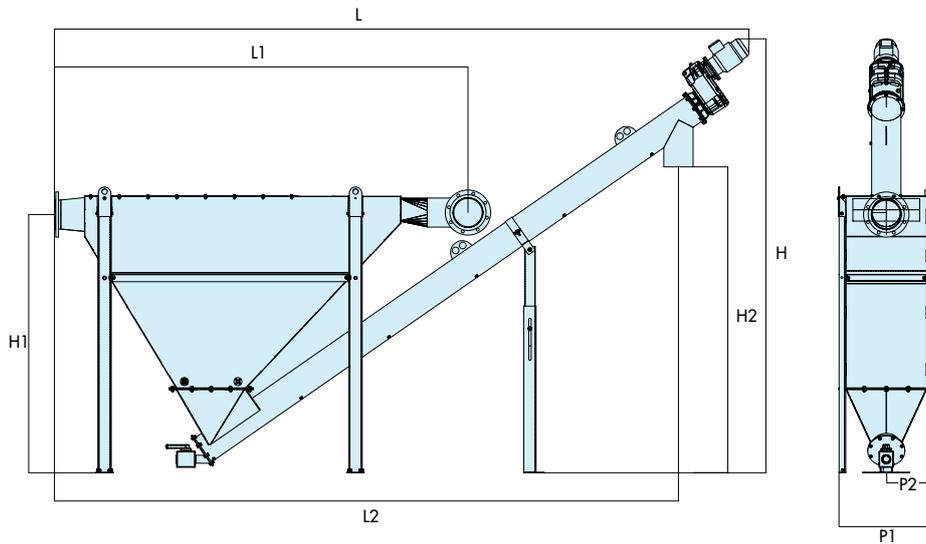
SINT® module



Bolted wear bars (external view of trough)



Overall Dimensions



MODEL	L	L1	L2	H	H1	H2	P1	P2
FGC 005	4,300	2,245	3,600	2,500	1,450	1.800	431	220
FGC 008	4,300	2,286	3,600	2,500	1,450	1.800	631	320
FGC 015	5,400	3,125	4,700	3,000	1,950	2.300	716	365
FGC 025	5,400	3,200	4,700	3,000	2,000	2.300	816	415
FGC 036	5,400	3,275	4,700	3,000	2,000	2.300	1,016	478

Dimensions in mm

Application



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