VEOLIA

John Meunier SEPRAPAC®

Type PCS

Pretreatment Combined Systems

Screenings removal, Grit removal, Fats, Oil & Grease removal

WATER TECHNOLOGIES

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PCS Combined Systems

The PCS-G series integrate screenings removal and grit separation. The PCS-F series incorporates the same PCS-G treatment segments plus a further treatment section for fat, oil & grease (FOG) removal, all within a single package unit. All PCS units are designed for installation on a concrete slab.

Availability

MODEL	MGD	m^3/h
PCS-10	0.23	36
PCS-20	0.46	72
PCS-30	0.68	108
PCS-45	1.03	162
PCS-60	1.37	216
PCS-80	1.83	288
PCS-100	2.28	360
PCS-120	2.74	432
PCS-150	3.42	540

PCS Systems can also be used for septage receiving applications. The input flows and tank sizes will be different.

Operation

- The waste water enters the screen section where screenings are removed from the flow. They are subsequently washed and compacted prior to discharging the screenings in a receiving system. The screen can be supplied with a bypass.
- The screened effluent then flows through a chamber where the grit settles. The accumulated grit is conveyed horizontally to a grit classifier. It is washed as it is lifted out of the tank prior to being dewatered and discharged into a separate receiving system.
- Both PCS-G and F series may be fitted with air diffusers to improve organic matter separation.
- Air will also enhance flotation and improve FOG removal in the PCS-F units.
- FOG is drawn off and disposed in separate receiving system.
- Continuous bagging system can be fitted on all discharge points, to provide a totally enclosed system that will enhance odor control.

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)

Specifications

Efficiency:

- Solids volume reduction: up to 40% dry solids can be obtained.
- Grit removal: Up to 95% of 60 to 70 mesh (250 µm to 200 µm) particles can be obtained (with air agitation and screw classifier washing).
- Organic washing: Up to 90% can be achieved.
- Efficiency could vary depending on solid proper ties.

Benefits

- Low odor level in the dewatered grit
- Separated discharge
- High quality and reliability
- Low costs

Features

- Stainless steel construction
- Separated discharge
- Small foot print all in one package
- Quick and easy to install

Applications

- Small sewage treatment works
- Municipal and Industrial
- Receiving waste from tankers

Resourcing the world

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Veolia Water Technologies Communications - 04/2016