

JOHN MEUNIER

SEPRAPAC TYPE PCS

PRETREATMENT COMBINED SYSTEMS

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



 **VEOLIA**
WATER

Solutions & Technologies

TYPE PCS PRETREATMENT COMBINED SYSTEMS

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

Operation

PCS Combined Systems

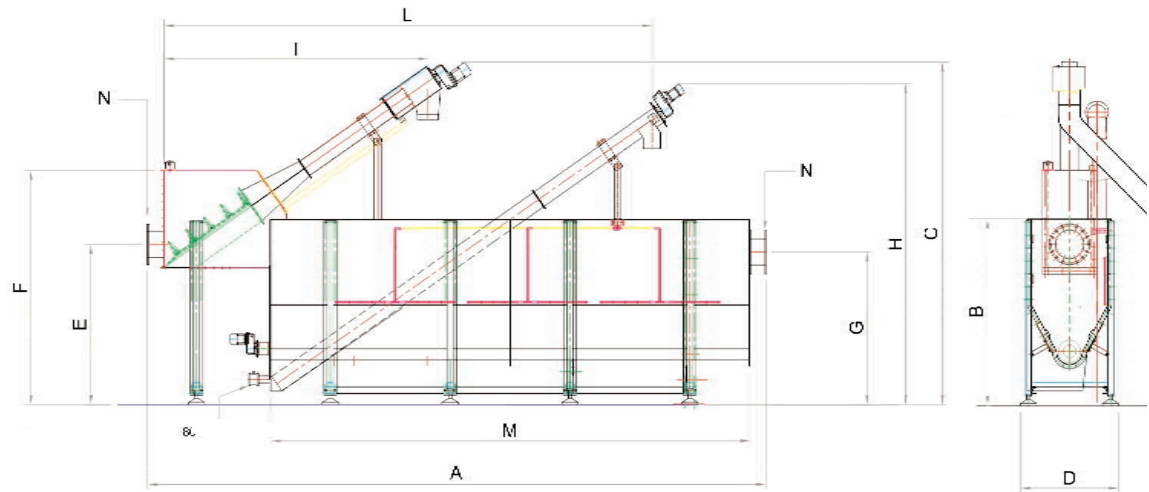
The PCS-G series integrate screenings removal and grit separation. The PCS-F series incorporates the same PCS-G treatment segments plus a further treatment section for fat, oil & grease (FOG) removal, all within a single package unit. All PCS units are designed for installation on a concrete slab.

- 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 & 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.

Availability

| Model | Inlet Flow (MGD) |
|----------------|------------------|
| PCS-G or F-15 | 0.35 |
| PCS-G or F-30 | 0.7 |
| PCS-G or F-45 | 1.0 |
| PCS-G or F-60 | 1.4 |
| PCS-G or F-80 | 1.8 |
| PCS-G or F-100 | 2.3 |
| PCS-G or F-150 | 3.5 |

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



(Dimensions in inches for reference only)

| Model | A | B | C | D* | E | F | G | H | I | L | M | N |
|-------|-----|----|-----|----|----|-----|----|-----|-----|-----|-----|----|
| PCS-G | 174 | 63 | 128 | 29 | 55 | 91 | 53 | 120 | 109 | 183 | 118 | 6 |
| PCS-G | 292 | 63 | 128 | 29 | 55 | 91 | 53 | 120 | 109 | 183 | 237 | 8 |
| PCS-G | 410 | 63 | 128 | 29 | 55 | 91 | 53 | 120 | 109 | 183 | 355 | 8 |
| PCS-G | 304 | 91 | 154 | 49 | 79 | 126 | 73 | 150 | 130 | 240 | 237 | 12 |
| PCS-G | 422 | 91 | 154 | 49 | 79 | 126 | 73 | 150 | 130 | 240 | 355 | 12 |
| PCS-G | 538 | 91 | 178 | 72 | 79 | 126 | 73 | 158 | 143 | 252 | 473 | 16 |

* For PCS-F add 18 inches to dimension D

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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)

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 & screw classifier washing).
- Organic washing: Up to 90% can be achieved.
- Efficiency could vary depending on solid properties.

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

Typical Applications

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



PCS-G
Typical Arrangement



PCS-F
Typical Arrangement

Veolia Water Solutions & Technologies North America



John Meunier Inc. has been serving North-American municipalities and industries since 1948 by offering them complete water and wastewater treatment solutions. With our state-of-the-art technologies, efficient products and team of seasoned professionals, we design solutions to perfectly match the needs of our clients.

John Meunier Inc. is a subsidiary of Veolia Water Solutions & Technologies, the Veolia Water division which designs and manufactures technological solutions for water and wastewater treatment. Veolia Water is the world leader in water services, serving over 110 million people worldwide with close to 68,000 employees.

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ISO 9001: 2008

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