



Centrifugal Sand Separators

For Centrifugal Removal of Sand, Silt and Gravel from Water



Industrial, Commercial & Municipal

Centrifugal Sand Separators

Time.
Quality.
Experience.
Knowledge.

Yardney Centrifugal Sand Separators

are ideal for removal of suspended solids and inorganic materials with a specific gravity of 2 or greater. This highly effective system will provide consistent, simple removal of inorganic material down to 75 microns. Easily installed, these carbon steel units are rated to 150 psi with threaded or flanged inlet/outlet connections. Smaller models are designed for vertical installation while larger models are angled and floor or ground mounted.

Sizing must be within the specified flow range for proper centrifugal action.

Larger flow separators and custom designed systems are available.



Applications

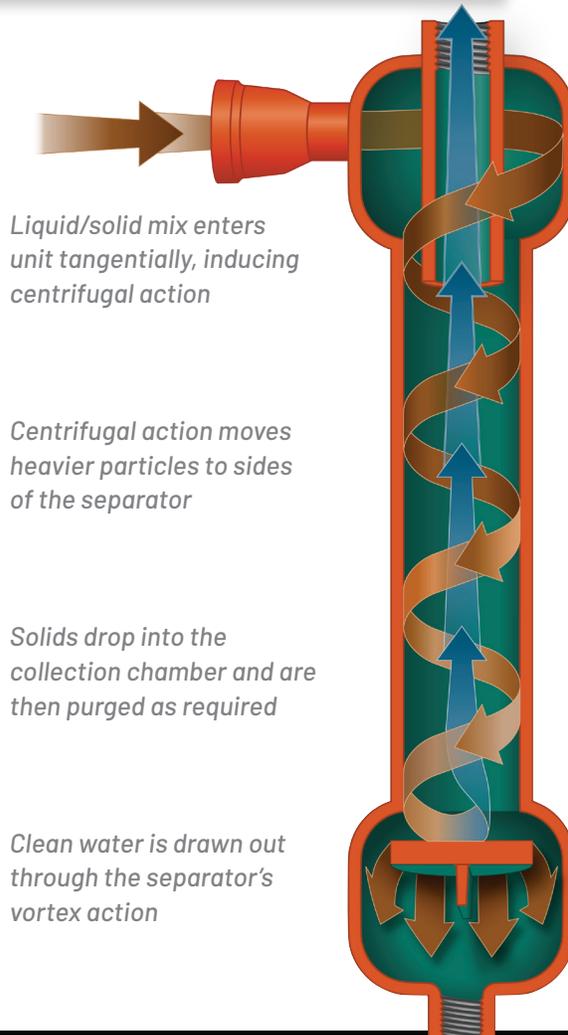
- Removal of sand, rock, grit and other inorganic contaminants with fine filtration down to 200 mesh or 75 microns
- Storm water runoff, industrial process water, incoming plant water, waste water clean-up, industrial water for plant reuse
- 150 psi standard operating pressure (high pressure systems available)
- Flow ranges from 4 gpm
- Removal of solids with a specific gravity of 2 or greater
- Serves as an excellent pre-filter to allow for improved sand media or screen filter performance by removing the gross solids from the water source

Advantages

- Sand removal efficiency of 98% of solids down to 200 mesh or 75 microns
- Multiple units in series provide higher efficiencies of filtration
- Units are available in ASME code or non-code construction
- Available with a manual or automatic solids purge valve system
- Special alloys and linings are available for prolonged life in required applications
- Made in USA

| SPECIFICATIONS CENTRIFUGAL SAND SEPARATOR Vertical | | | | | | | |
|--|--------------|--------------------|--------------|--------------------|------------------------------|---------------|--------------------------|
| Model | Minimum Flow | | Maximum Flow | | Inlet/Outlet NPT Threaded | Purge Port | Particle Size Maximum |
| | gpm | m ³ /hr | gpm | m ³ /hr | | | |
| PCS-5V | 4 | 1 | 10 | 2 | 1/2" | 1" | 3/8" |
| PCS-7V | 10 | 2 | 20 | 5 | 3/4" | 1" | 3/8" |
| PCS-10V | 18 | 4 | 38 | 9 | 1" | 1" | 1/2" |
| PCS-12V | 26 | 6 | 52 | 12 | 1 1/4" | 1" | 1/2" |
| PCS-15V | 38 | 9 | 79 | 18 | 1 1/2" | 1" | 1/2" |
| PCS-20V | 63 | 14 | 120 | 27 | 2" | 2" | 1/2" |
| PCS-25V | 100 | 23 | 180 | 41 | 2 1/2" | 2" | 1/2" |
| PCS-30V | 125 | 28 | 260 | 59 | 3" | 2" | 1/2" |
| PCS-40V | 190 | 43 | 345 | 78 | 4" | 2" | 1/2" |

| SPECIFICATIONS CENTRIFUGAL SAND SEPARATOR Angled | | | | | | | |
|--|--------------|--------------------|--------------|--------------------|---|---------------|--------------------------|
| Model | Minimum Flow | | Maximum Flow | | Inlet/Outlet ANSI 150# Raised Face Flange | Purge Port | Particle Size Maximum |
| | gpm | m ³ /hr | gpm | m ³ /hr | | | |
| PCS-40LA | 200 | 45 | 400 | 91 | 4" | 2" | 1 1/2" |
| PCS-60LA | 365 | 83 | 960 | 218 | 6" | 2" | 1 1/2" |
| PCS-80LA | 800 | 182 | 1600 | 364 | 8" | 2" | 1 1/2" |
| PCS-100LA | 1300 | 295 | 2300 | 523 | 10" | 2" | 1 1/2" |
| PCS-120LA | 2025 | 460 | 3400 | 773 | 12" | 2" | 1 1/2" |
| PCS-140LA | 2975 | 676 | 5000 | 1136 | 14" | 2" | 2" |
| PCS-160LA | 4000 | 909 | 6200 | 1409 | 16" | 2" | 2" |
| PCS-180LA | 5000 | 1136 | 7800 | 1773 | 18" | 2" | 2" |



Standard assembly includes:

- Welded carbon steel
 - Vertical models include female threaded inlet and outlet connections and a threaded purge port for purging of contaminants or hookup of automatic flush valve
 - Angled models include flanged inlet and outlet connections and a threaded purge port for purging of contaminants or hookup of automatic flush valve

Available options:

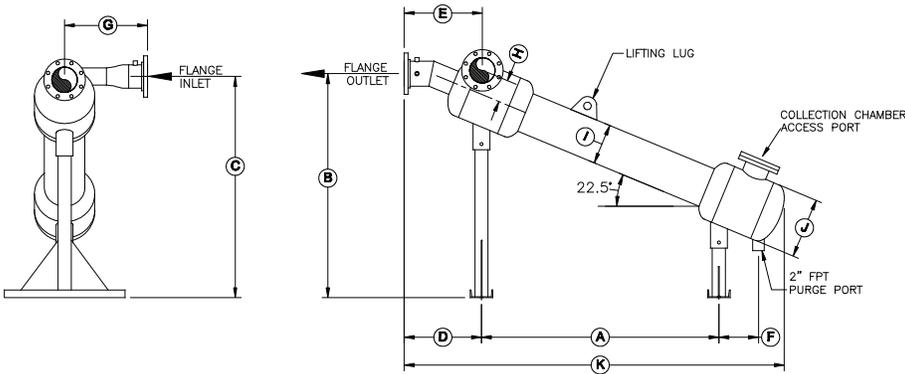
- ASME code
- High pressure
- Special metal alloys and coatings for extended product life
- Ability to disassemble unit for inspection through flanged manways
- Automatic purge valve for flushing of filter
- Wall mount kit on smaller units

Centrifugal Sand Separators

Specifications

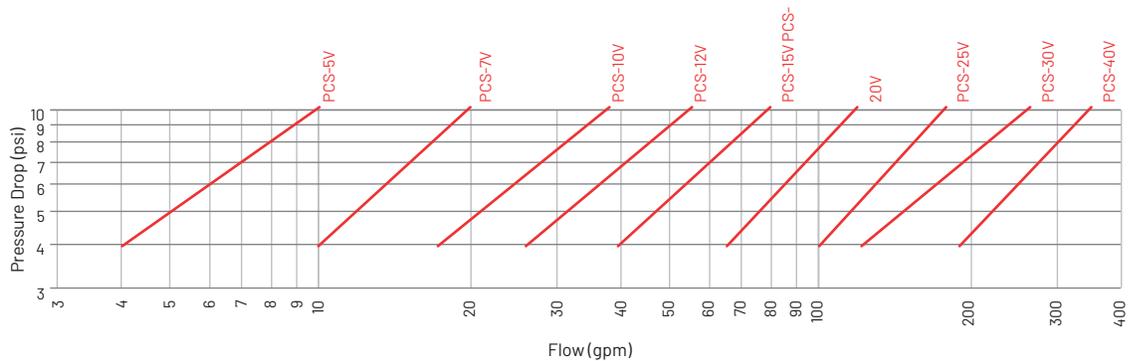
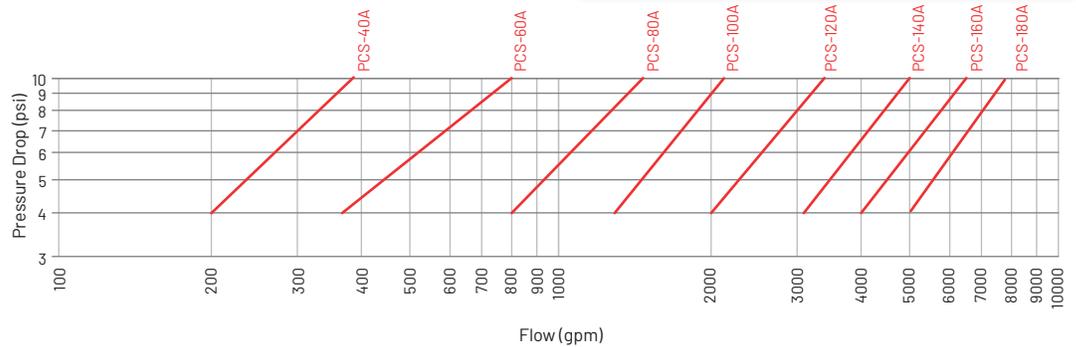
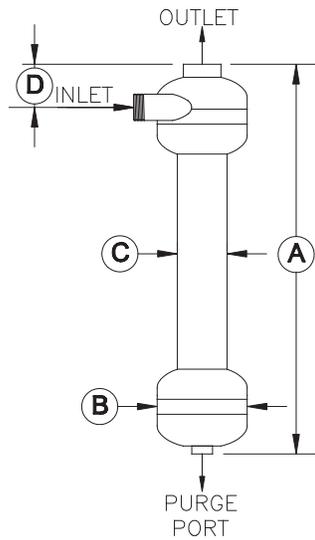
DIMENSIONS | Angled

| Model | A | B | C | D | E | F | G | H | I | J | K |
|-----------|----------|---------|----------|-----------|---------|---------|---------|--------|---------|-----|----------|
| PCS-40LA | 48 1/2" | 46 1/2" | 46 1/2" | 16 11/16" | 16" | 7 1/2" | 19" | 4" | 6 5/8" | 12" | 80" |
| PCS-60LA | 63" | 59 1/2" | 60 3/8" | 20 1/2" | 20 3/4" | 10 1/2" | 22" | 5 1/4" | 10 3/4" | 16" | 106 1/4" |
| PCS-80LA | 71" | 65" | 66" | 21 3/4" | 22 5/8" | 12" | 24 1/2" | 5 5/8" | 12 3/4" | 18" | 114" |
| PCS-100LA | 78" | 71" | 72 3/4" | 21" | 24 1/2" | 13" | 29" | 7" | 16" | 22" | 123 1/2" |
| PCS-120LA | 102" | 75 1/4" | 76 1/2" | 23 3/4" | 26 5/8" | 14 1/4" | 32" | 8 1/8" | 18" | 26" | 139" |
| PCS-140LA | 102 1/2" | 85 3/8" | 86 5/8" | 24 1/2" | 27 3/4" | 12" | 33 1/2" | 9" | 20" | 28" | 152 1/2" |
| PCS-160LA | 108" | 89 1/4" | 90" | 24 3/8" | 29" | 12" | 33 1/2" | 9" | 24" | 30" | 160" |
| PCS-180LA | 118 1/2" | 98 1/4" | 100 1/4" | 27" | 33 5/8" | 15" | 34 1/2" | 11" | 28" | 36" | 177" |



DIMENSIONS | Vertical

| Model | A | B | C | D |
|---------|---------|-----|---------|--------|
| PCS-5V | 21 1/2" | 6" | 2 3/8" | 2 1/2" |
| PCS-7V | 21 1/2" | 6" | 2 3/8" | 2 1/2" |
| PCS-10V | 30 1/2" | 6" | 3 1/2" | 2 3/4" |
| PCS-12V | 30 1/2" | 6" | 3 1/2" | 3" |
| PCS-15V | 30 1/2" | 6" | 3 1/2" | 3 1/8" |
| PCS-20V | 38" | 8" | 4 1/2" | 3 5/8" |
| PCS-25V | 43 3/4" | 10" | 4 1/2" | 4 1/2" |
| PCS-30V | 47 1/2" | 10" | 5 9/16" | 5" |
| PCS-40V | 49" | 12" | 6 5/8" | 6" |



Made in USA

Phone: 951.656.6716
 Toll-Free: 800.854.4788
 Fax: 951.656.3867
 info@yardneyfilters.com



www.yardneyfilters.com