

Flo-Beast

For Septage, FOG & Sludge Screening
VFA-DM

SAVI



Patent Pending

The BEAST



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The BEAST

The Next Generation of Septage, FOG & Sludge Screening



Screening septage or heavy sludge comes with a long list of problems. The two most commonly identified are the inability to handle the heavy solids, and long truck unloading times. These are the result of not having the proper equipment for the application. The Beast has been engineered specifically for septage and heavy solids loading applications.

Unique Tank Design. Standard tank designs promote solids sedimentation. The Beast has a two-stage tank with a curved, sloped inlet section so septage is directed into the screen cylinder. The hopper trough extends beyond the cylinder opening which reduces screenings recycle. The drive configuration on the screen cylinder eliminates support arms and solves the ragging problem.

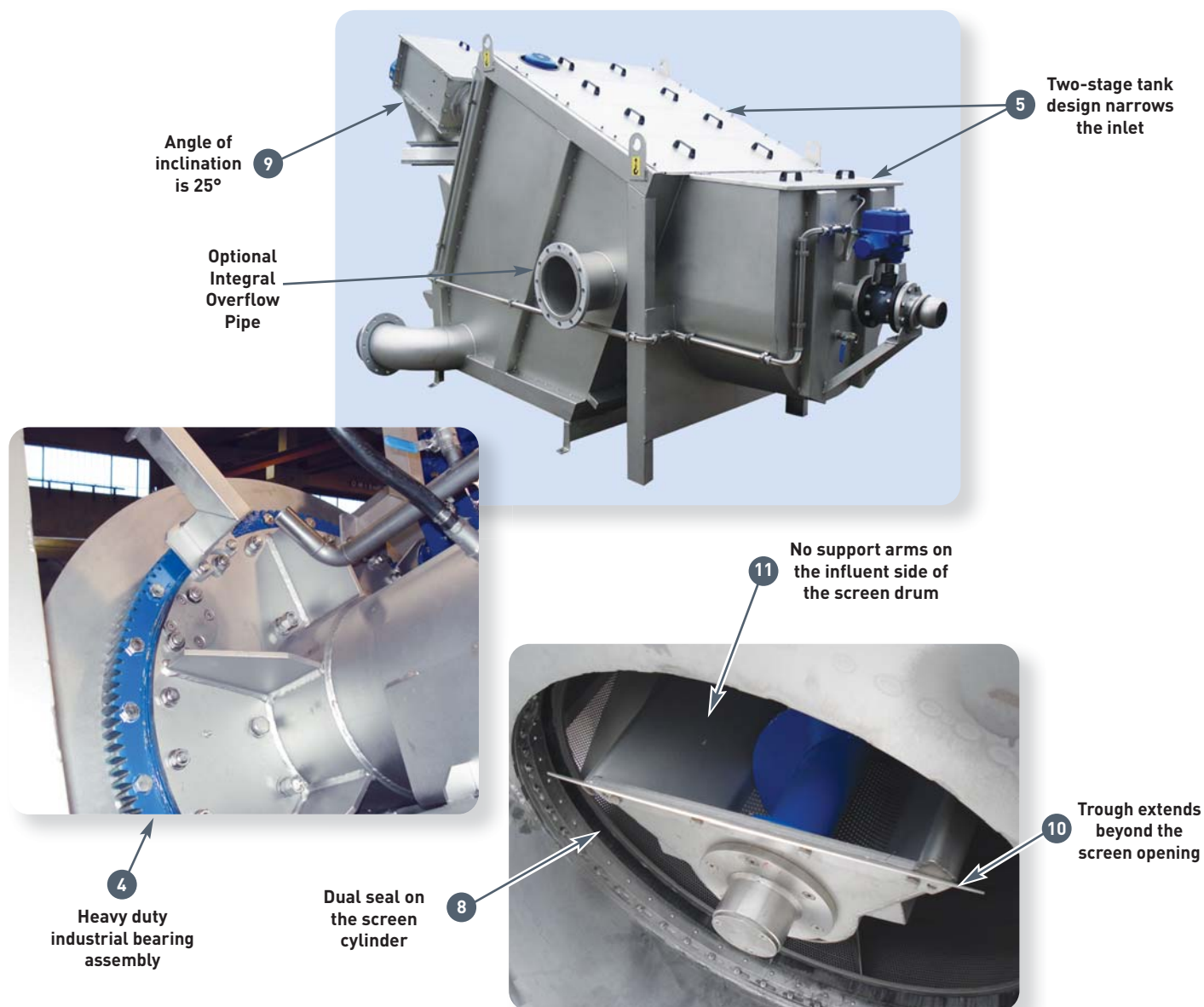
Dual Drive System. This feature enables the screen basket and auger to operate independently. The speed of the auger is increased to provide faster solids removal while the speed of the screen basket is decreased to improve screening efficiency.

Angle of Inclination. The drum screen component sits at a 25° angle inside the tank which promotes increased capture and transport of solids for faster unloading.

Sequence of Operation. As septage enters the tank, the short, narrow inlet directs the septage into the rotating screen drum. As the screen rotates, solids are captured on flights or scoops that carry the solids around the drum and deposit them into the auger trough.

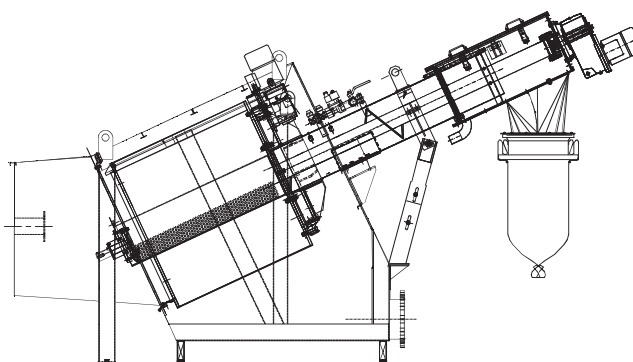
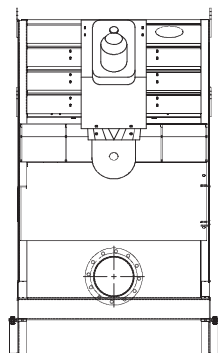


From the trough, solids are conveyed by the auger into the washing zone and then to dewatering. The percent of dryness achieved is dependent upon the solids concentration at the influent and the type of solids being dewatered.



Features & Benefits

- 1 **Engineered for large septage screening applications and high solids loadings** - Each feature solves a specific problem associated with these applications.
- 2 **Proven Flo-Drum technology** - Over 200 installations worldwide.
- 3 **Dual drive system** - Drum and auger are driven independently to optimize solids removal.
- 4 **Screen is mounted using a large diameter, single row, heavy duty industrial bearing assembly with a built in grease fitting** - Better resistance to axial and radial loading with fewer maintenance points.
- 5 **Two-stage tank design narrows the inlet** - Solids are fed directly into the screen basket which prevents sedimentation.
- 6 **The auger is run at a faster speed** - Removes material more quickly.
- 7 **The screen cylinder is run at a slower speed** - Produces better solids capture and cleaning of the screen.
- 8 **Dual seal on the screen cylinder** - Prevents bypass and improves capture rate to 65%.
- 9 **Angle of inclination is 25°** - Screen handles more solids and removes them faster.
- 10 **Trough extends beyond the screen opening** - Reduces screenings recycle by preventing solids from dropping out of the front of the screen basket.
- 11 **No support arms on the influent side of the screen drum** - Nothing to snag and accumulate long stringy solids.
- 12 **Eliminates brushes inside the screen basket** - Less extrusion and manipulation of the screenings for better capture and less maintenance.
- 13 **Additional monitoring options and security access may be added** - Controls can be as basic or as sophisticated as required.
- 14 **Optional bagger is available** - Maintains a cleaner screenings area.



Specifications

Drum Screen OD	mm	1000	1200	1400
Capacity (based on 3-4% solids content)	gpm	525	650	875
Screen media		Perforated plate		
Openings	mm	6		
Angle of inclination		25°		
Wash water pressure	bar	5 - 8		
Drive motor - Drum Screen	Hp	2	2	2
Drive motor - Shafted Screw	Hp	2	2	2
Controls		NEMA 4X or NEMA 7		
Voltage	V/P/H	240-480/3/60		

Materials of Construction

Screen media	AISI 304 SS [316 Optional]
Transport tube	AISI 304 SS [316 Optional]
Shafted screw	High Strength Alloy Steel [304/316 SS Optional]
Tank, piping, supports, end plates	AISI 304 SS [316 Optional]
Fasteners	AISI 304 SS [316 Optional]



Enviro-Care
A WAMGROUP® Company

1570 St. Paul Avenue
Gurnee, IL 60031 U.S.A.
P. 815.636.8306 • F: 847.672.7968

ecsales@Enviro-Care.com
www.Enviro-Care.com