

FLO-Drum

FD

Rotating Screen for Wastewater

Complete Screening, Washing, Conveying, Dewatering System



The exceptional design features of the Flo-Drum screen combine to create the most advanced fine screening system available for wastewater applications. This new generation screen outperforms older cylindrical bar screen, sieve screen, and step-type screen technology. The Flo-Drum screen has been engineered for high capture efficiency and years of reliable operation.

As solids are captured by the screen drum, cleaning vanes direct the solids into the auger trough. The solids are then moved into the washing zone where organic material is removed and discharged back into the channel. The washed screenings are conveyed to the dewatering zone for compaction and discharge.



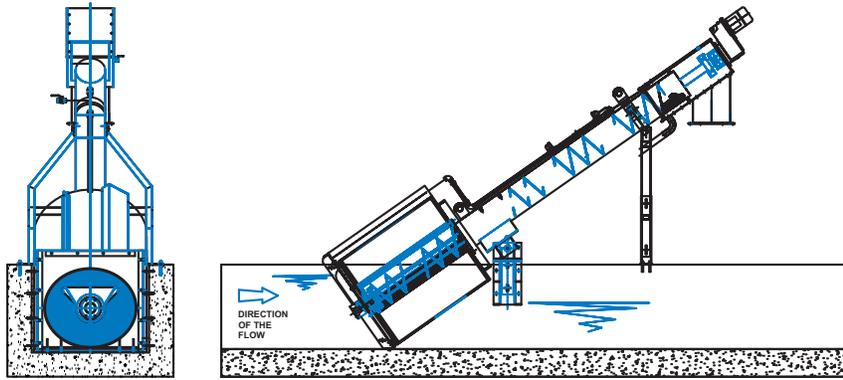
8 MGD Flo-Drum Screen



Two Flo-Drum Screens with baggers

Features & Benefits

- 1 Double seal at influent end of the screen basket** - Improves capture and reduces bypass.
- 2 Flo-Drum units are available for in-channel or in-tank applications** - Same efficient operation for either gravity or pumped flows.
- 3 Flo-Drum screening systems have three separate washing functions** - The unit is designed to wash organics from the screenings and be self-cleaning at the screen basket and in the dewatering zone.
- 4 A spray nozzle and brush assembly on the outside of the screen basket** - Keeps small solids contained within the screen basket as it cleans the basket.
- 5 Large, robust, self-lubricating bronze bushing** - No lubrication pumps or maintenance required.
- 6 Single drive operates the rotating screen basket and screw conveyor** - Synchronized operation for lower energy consumption and less maintenance.
- 7 Hinged and latched compaction zone access cover with safety interlock switch** - Provides ease of access with no tools required yet prevents opening during operation.
- 8 Washed screenings are completely enclosed within the transport tube and dewatering zone** - Creates a cleaner, drier screenings area with reduced odor.
- 9 Removable, sliding Aluminum covers** - Light weight covers slide open and out of the way to perform routine maintenance or pivot the unit out of the channel.
- 10 Optional bagger assembly is available** - Reduces handling of screenings, vector attraction and odor.
- 11 Optional freeze protection is available** - Screens are easily adaptable for outdoor installations in colder climates.



Specifications

Flow Rate	mgd	1 - 43 (6 mm perforated media)
Screen media/perforated plate	mm	3 - 6
Channel widths	inches	26 - 118
Angle of inclination	degrees	35
Drum screen OD	mm	600 - 800 - 1000 - 1200 - 1400 - 1600 - 1800 - 2000 - 2200 - 2400 - 2600 - 3000
Drive motor	Hp	1 - 1.5 - 2 - 3 - 5
Controls		NEMA 4X/7
Voltage	V-Hz	240/480 V - 60 Hz

Materials of Construction

Shafted screw	ST52-3 Alloy Steel (304/316 SS Optional)	
Supports, end plates, anti-rotation bars	AISI 304 SS (316 Optional)	
Screen basket	AISI 304 SS (316 Optional)	
 Tubes and discharge chutes	AISI 304 SS (316 Optional)	

FLO-Products

Simply Superior Design

Enviro-Care has been manufacturing liquid/solid separation and solids reduction technology for the wastewater industry since 1972. These unique products are engineered for high process efficiency, reduced maintenance and low energy consumption.

With the addition of new screens, MBR Pre-treatment systems, washing/dewatering options, and complete sludge/septage screening systems; Enviro-Care products can be found providing the same exceptional quality and cost-effective technology in more wastewater applications than ever before.

Flo-Drum MBR Pre-treatment Screen

Flo-Drum Rotating Screen

Flo-DrumSieve Externally-fed Rotating Drum Screen

Flo-GritWash Grit Classifying and Washing System

Flo-Minutor Solids Reduction Comminutor

Flo-MultiRake Coarse Bar Screen

Flo-MultiRake Fine Bar Screen

Flo-MultiRake Perforated Media Screen

Flo-Press Hydraulic Ram Press

Flo-RotoDrum Internally-fed Rotating Drum Screen

Flo-Screen Bar Screen

Flo-Screen XD Extended Discharge Bar Screen

Flo-SeptageStation DM Heavy Solids Loading Screening System

Flo-Sieve Shaftless Spiral Screening Conveying, Washing and Dewatering System

Flo-Spiral Shaftless Spiral Conveyor

Flo-Station SR Septage Receiving System

Flo-WashPress Washer Compactor



Enviro-Care is the exclusive licensee for SAVI S.R.L. technologies in North America.

5701 Industrial Avenue
Rockford, IL 61111
P. 815.636.8306 • F: 815.636.8302

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

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