

FLO-RotoDrum

FRI

Internally-fed Rotating Drum Screen

Protecting MBR Investments Worldwide



Advanced design features for reliable MBR pre-treatment screening.

MBR pre-treatment screening is critical to the MBR process. The Enviro-Care MBR internally-fed rotating drum screen has been engineered to provide high performance screening in conjunction with low maintenance. These screens are specifically designed for low flow MBR screening applications.

Several features promote high capture efficiency. The screen cylinder sits at a 5° angle of inclination from the influent end in order to provide longer retention time and promote capture of finer solids. Full cylinder dewatering flights gently roll the solids forward to discharge attracting more solids with each revolution of the drum.

These units incorporate unique operating and maintenance features. Without removing the full screen covers or screen cylinder, the trunnions, spray bar and brush can be easily accessed via individual maintenance covers. Two more access points act as observation ports that enable plant personnel to monitor cylinder operation and discharge.

The Flo-RotoDrum screen has no running seals. This is an important feature because seal wear that can cause bypassing is eliminated. Should headbox cleaning ever be required, the headbox can easily be removed from the influent end without disassembling the unit.

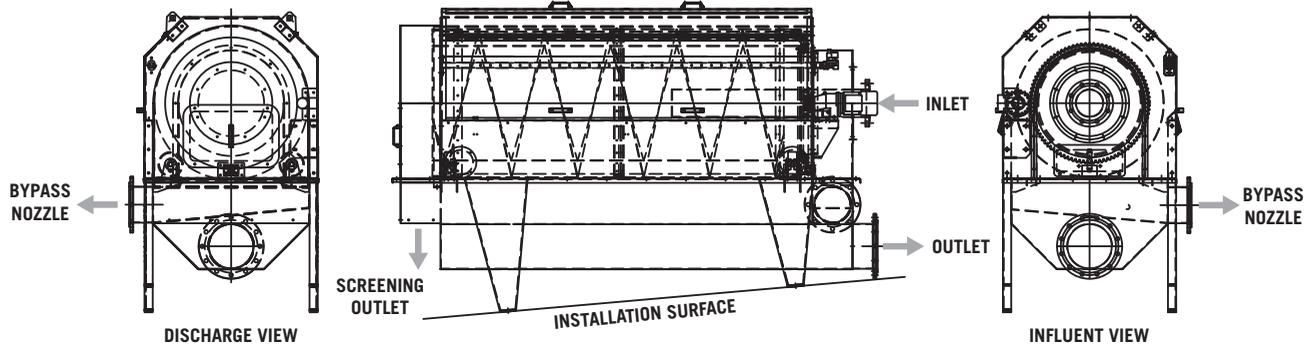
Features & Benefits

- 1 **Angle of inclination is 5°** - Provides longer retention time for better separation and dewatering.
- 2 **Full cylinder dewatering flights** - Solids are retained within the cylinder longer to attract and capture finer solids.
- 3 **Unique headbox design** - Distributes flow evenly along both sides of the screen cylinder.
- 4 **Headbox trough can be completely removed at the influent without disassembling the unit** - Designed to keep maintenance time to a minimum.
- 5 **External spray bar and brush** - Prevents solids accumulation on screen exterior.
- 6 **Trunnions are fully adjustable and replaceable without removing the screen cylinder** - Easy access, minimal downtime.
- 7 **Screens are designed with no running seals** - No seals to wear and cause bypassing.



Full cylinder dewatering flights

Two Flo-RotoDrum screens discharging to a Flo-WashPress.



Specifications

Perforated media openings	mm	1 - 6
Openings for MBR (standard)	mm	1 and 2
Flow rates to	mgd	8
Wash water pressure	bar	5 - 8
Nozzle openings (std)	mm	250
Power	kW	0.37
Electric motor		3P 460V 60Hz IP55

Materials of Construction

Frame	AISI 304 SST (316 optional)
Perforated media cylinder	AISI 304 SST (316 optional)
Discharge tank and piping	AISI 304 SST (316 optional)
All components and fasteners	AISI 304 SST (316 optional)
Trunnions	Nylon
Spray nozzles	Brass
Drive gear and sprocket	HDPE

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-Sieve** Shaftless Spiral Screening Conveying, Washing and Dewatering System
- Flo-Spiral** Shaftless Spiral Conveyor
- Flo-Station** SR Septage Receiving System
- Flo-WashPress** Washer Compactor



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