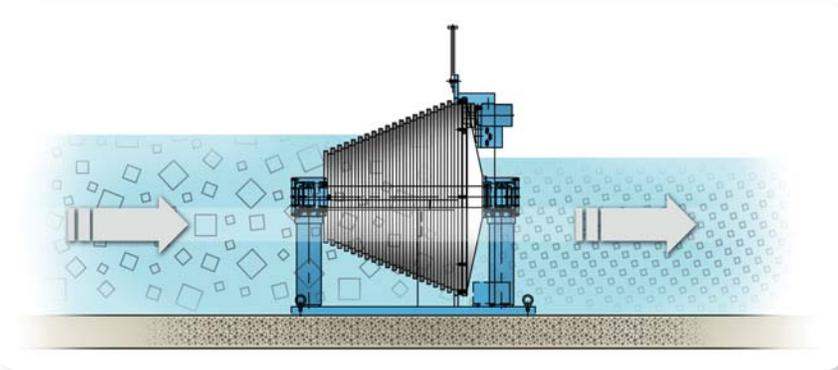


# FLO-Minutor

FM

Solids Reduction Comminutor

## High Performance – Low Maintenance



Flo-Minutor installed in a CSS channel.

The Enviro-Care Flo-Minutor outperforms traditional grinders and comminutors because of its ability to reduce solids with a cutting action instead of a grinding action. Cut solids are smaller and more uniform in size. This improves the efficiency of solids handling pumps and the movement of the solids through a channel. For this reason, Flo-Minutors can be found at pump stations, in CSS channels and in collection systems with multiple deep channels that require reliable movement of wastewater through the system without solids obstructing the flow.

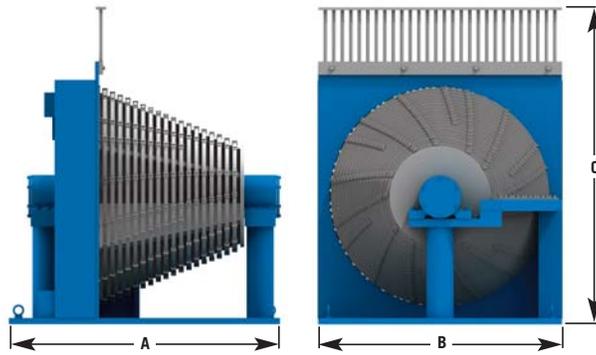
The Flo-Minutor features a single, horizontally shafted conical rotor assembly made of concentric stainless steel rings equipped with hardened steel cutters. The cutters are staggered so that 100% of the cutting force is exerted on each cutter as it engages with the knife.

Unlike vertically shafted comminutors where lower blades and bearings experience uneven wear as a result of exposure to grit, sand and gravel, the Flo-Minutor's horizontal shaft design keeps these components out of the bottom of the channel.



## Features & Benefits

- 1 Horizontal, shafted conical rotor assembly** - Reduces cutter wear from grit, sand and gravel passing through the unit.
- 2 Cutter rotor is the single moving part** - Reduces maintenance costs.
- 3 Value engineered with fewer mechanical parts** - The lowest 5 – 10 year life cycle costs in the industry.
- 4 Hardened steel cutting blades are sequentially mounted on concentric stainless steel rings** - The cutting blades are staggered so that 100% of the hydraulic motor's force is exerted on each blade.
- 5 Cutters and knives are D2 tool steel hardened to Rockwell 55 - 61** - Longer life, corrosion resistant and hard enough to cut steel.
- 6 Liquid flow produces a self-cleaning action** - Particles are continuously being washed through the conical rings.
- 7 Totally submersible** - No damage to motor if submerged.
- 8 Auto-reversing** - Reduced operator intervention.
- 9 Easy handling** - Unit can be lifted with standard davit crane or service truck.
- 10 Cutter blades are uniform in size and easily accessible** - Insures ease of change-out.
- 11 All components are readily accessible** - Cutter blade replacement does not require unit disassembly.



## Dimensions • Flow • Weight

Model	A	B	C	Avg. Flow	Max. Flow	Weight
12	16"	12"	22"	0.7 mgd	1.3 mgd	215 lbs
15	19"	15"	25"	1.1 mgd	2.0 mgd	400 lbs
18	24"	18"	28"	2.0 mgd	3.0 mgd	420 lbs
22	27"	22"	32"	3.0 mgd	4.5 mgd	650 lbs
24	32"	24"	34"	5.0 mgd	6.8 mgd	750 lbs
30	34"	30"	40"	9.0 mgd	11.2 mgd	1000 lbs
36	40"	36"	47"	20.0 mgd	23.0 mgd	1500 lbs

For flow rates greater than 23 mgd, please contact Enviro-Care.

## Materials of Construction

Cutter blades	D2 tool steel, Rockwell 60-61
Stationary knives	D2 tool steel, Rockwell 55-59
Bearing and knife mounts	AISI 304 stainless steel
Comminutor frame	AISI steel
Conical rotary screen	AISI 304 stainless steel
Stationary overflow screen	AISI steel
Hydraulic power pack	Electric motor - 5HP, 230/460V, 3 Phase, 1.15 SF, TEFC
Controls	NEMA 4X (for 3-phase, 230/460 V, 60 Hz power supply)

## FLO-Products

Simply Superior Design

Enviro-Care has been manufacturing liquid/solid separation and solids reduction technology for the wastewater industry since 1972. Many of these first units are still in service today. These unique products are engineered for high process efficiency, reduced maintenance and low energy consumption.

The Enviro-Care Flo-Products family is expanding. With the addition of new screens, MBR Pre-treatment systems, washing and dewatering options and complete septage receiving 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



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

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