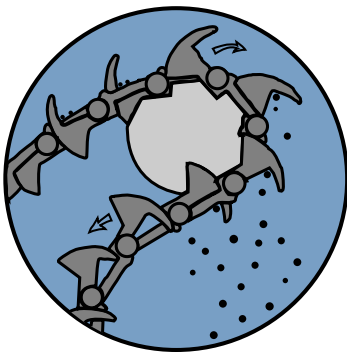


AquaGuard®

Self-Cleaning Moving Media Channel Screen

The AquaGuard screen is a self-cleaning, in-channel screening device that utilizes a unique filter-element system designed to automatically remove a wide range of floating and suspended solids from wastewater.



A specific configuration of filter elements is mounted on a series of parallel shafts to form an endless moving belt that collects, conveys and discharges solids greater than the element spacing. Spacing from 0.04" (1 mm) to 1.18" (30 mm) is available.

Principle of Operation Solids contained in a wastewater flow are captured on the filter – elements and carried upward on the belt assembly to discharge at the rear of the unit. Two-stage screening is achieved which results in minimal headloss. Coarse filtration occurs on the forward screen face and fine filtration on the recessed face.

As the rake tip of one row of filter elements pass between the shank arm of the lower row, the elements automatically clean themselves. The unit is equipped with a rotating brush that provides additional removal of solids.

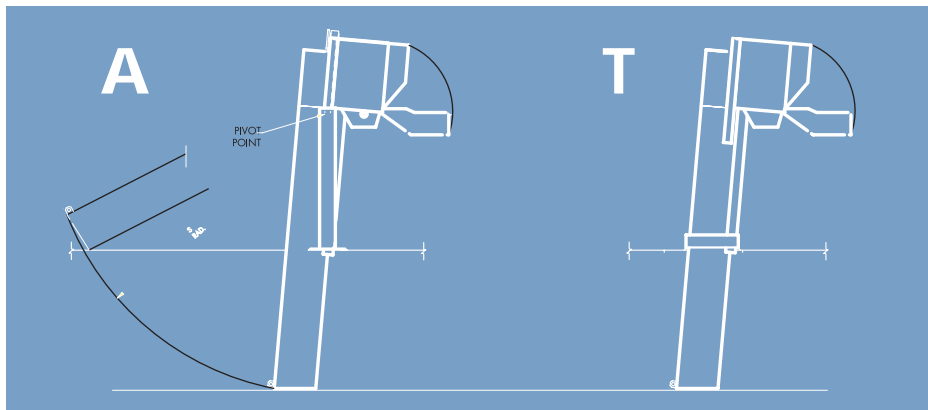


Features

- **Low power consumption (1.0 HP or less)**
- **Self-cleaning • Intermittent operation**
- **No submerged bearings • All moving parts can be accessed and serviced above water level**
- **Screens pivots out of channel**
- **Coarse and fine screening in one unit**
- **Ability to build precoat**
- **Flows to 100 MGD in a single unit**
- **Delivered fully assembled**
- **No attachment to sides or bottom of channel**

Benefits

- } **Low Operation Costs & Ease of Maintenance**
- } **High capture rates**
- } **High capacity**
- } **Ease of installation**



The AquaGuard® Screen styles A and T are available in Standard or Heavy Duty design.

Design Parameters Standard screen widths are 1.0' to 9.0' depending on the model with flow rates up to 100 MGD with a single unit. Two frame styles are available depending on space and channel depth requirements. Type A is a pivoting design and Type T is a stationary design.

The AquaGuard screen can be installed at angles of 60°, 75° and 85° depending on the frame and model selected. For maximum efficiency of operation, greater flow rate and higher solids removal, the recommended angle of inclination is 75°.

The screen conveys solids up and out of the channel at a speed of 7ft/min. The maximum amount of debris, in cubic yards per hour, that can be removed from the stream is a function of model and angle.

Movement of the screen can be continuous or intermittent. However, intermittent operation is recommended. This allows a mat of solids to build on the filter-rake elements which increases the solids capture rate.

Performance Parkson has over 5,000 installations in a wide variety of municipal and industrial applications.



AquaGuard MN 75° 1.5' x 12' in operation.

Design Parameters	Model MN (Standard)	Model S (Heavy Duty)
Min.Channel Width (in.)	12	24
Max. Screen Width (in.)	66	108
Max Design Headloss (in)	10	20
Fine Horizontal Spacing (in/mm.)	1/24 (1mm)	1/24 (1mm)
	1/8 (3mm)	1/8 (3mm)
	1/4 (6mm)	1/4 (6mm)
	5/8 (15mm)	5/8 (15mm)
		1 1/4 (30mm)
Coarse Horizontal Spacing (in/mm)	1/8 (4mm)	1/8 (4mm)
	3/8 (8mm)	3/8 (8mm)
	5/8 (14mm)	5/8 (14mm)
	1 3/8 (34mm)	1 3/8 (34mm)
		2 5/8 (69mm)
Fine Spacing Contact Surface Area (ft)	0.81	0.901
	0.73	0.733
	0.63	0.694
	0.57	0.591
		0.547
*Trash Capacity (yds ³ /hr)		
	60°	0.75
	75°	0.50
	85°	0.28
Filtration Dual	(Coarse & Fine)	(Coarse & Fine)
		0.99

*Based on yds³/hr per one foot of effective width



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