



Aqua Caiman[®] HD

In-Channel Articulating Rake Screen

The Aqua Caiman[®] HD screen is designed for larger in-channel installations requiring the handling of high flows or heavy solids. It incorporates the proven features and benefits of the original Aqua Caiman[®] articulating rake screen, but is larger, heavier and made for the toughest applications that require jam-free operation, low maintenance and low headloss. Like our original Aqua Caiman screen, the HD unit is ruggedly simple, operating without any lower bearings or sprockets. Additionally, it can be paired with the Aqua WashPress[®] to provide a complete screening system by washing, compacting, dewatering, and transporting the captured screenings.

Applications

- Large flow
- Combined storm overflows
- Intake structures
- Pump protection
- Heavy solids removal

Advantages

- Minimal maintenance
- Low headloss
- Built for durability
- Economical performance

Operation and Design Parameters

The Aqua Caiman HD is specifically designed to easily handle heavy solids in large flow, tough applications such as wastewater plants, combined storm overflows, water intake structures, and pump stations. It is suitable for new or retrofit installations with mountings in a 60-degree to 90-degree inclination.

The screen consists of a series of rakes attached to chain links which together form a flexible belt assembly to easily handle heavy solids in large flow applications. This is successfully accomplished without the need for lower bearings or sprockets. The flexible chain links allow the rakes to engage the bars and lift solids up the screen for discharge. Bar spacings available in 1 inch to 4 inches allow for low headloss. The screen features the heaviest chain link design in the industry, ensuring reliable 24/7 operation, and requires few moving parts for low maintenance. The Aqua Caiman HD is simply the best in-channel screen available to handle the largest and toughest applications.

Features

- Heavy frame sizes engineered for strength
- No submerged bearings
- Articulating rake operation
- 50 ft. depth capability
- Rectangular bar openings from 1 inch to 4 inches
- Multiple rakes
- Individually removable bars
- Heaviest chain link design in industry

Benefits

- Low operation costs and ease of maintenance
- Heavy solids lifting capability of up to 1,000 lbs
- Simple design for reliable operation
- All moving parts accessible above water level for easy maintenance
- Removal of large objects (without jamming machine)
- Rapid screenings removal

Parkson offers an Aqua Caiman design for any application.

	Aqua Caiman®	Aqua Caiman® Vertical*	Aqua Caiman® HD*
Width	Up to 10'	Up to 10'	Up to 10'
Height (Invert to discharge)	Up to 30'	Up to 50'	Up to 50'
Bar Rack Height	Up to 11'	Up to 23'	Up to 23'
Angle of Inclination	60° – 80°	90°	60° – 90°
Openings	¼" to 2-½"	¼" to 4"	1" to 4"

*The Aqua Caiman Vertical and Aqua Caiman HD (for vertical installations) include Parkson's True-Grip™ system for chain retention and additional rake teeth engaging force, and the Expulsionator™ deflector system to aid in release of captured solids at wiper.



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