

# Raptor® Fine Screen



Stainless Steel Construction  
Efficiently Removes Solids  
and Debris



Cleaner Water for a Brighter Future®



# Engineered for Superior Operation and Performance

The Lakeside *Raptor*® Fine Screen is an efficient, proven screening technology for removal of inorganic solids that can be harmful to downstream equipment in municipal and industrial wastewater applications. High removal efficiency and low headloss is achieved with the *Raptor*® Fine Screen's unique inclined cylindrical screenings basket design having varied screen bar heights. The *Raptor*® Fine Screen's rotating rake teeth fully penetrate the screen bars to positively remove captured debris and prevent grease from blinding or plugging the screenings basket, making the *Raptor*® Fine Screen ideal for septage receiving, sludge, scum and grease trap applications. The heavy-duty design provides durability and long life in the most severe conditions. Captured screenings are compacted, dewatered and washed free of most organics to approximately 40 percent solids. Volume is reduced by 50 percent and weight by 67 percent, thereby reducing disposal cost.

- All stainless steel construction resists corrosion
- Combines 4 processes in one unit (screens, washes, compacts and dewaterers)
- Uniquely designed three plane screenings basket minimizes headloss
- Fully penetrating rake teeth prevent screen basket from plugging and blinding
- Dual spray wash system provides cleaner discharge screenings
- Integrated compaction zone reduces volume and weight for reduced disposal cost
- Enclosed transport tube and optional bagger attachment reduce odors

**Made in the USA to our quality standards for performance you can trust.**

*Raptor*® Fine Screen with Continuous Bagger

*Raptor*® Fine Screen with Hinged Access Cover



*In-Channel Raptor*® Fine Screen

# Four Operations in One Unit Screens, Washes, Compacts and Dewaterers

## Screen Operation

As wastewater flows through the screenings basket, solids are captured by the screen bars that form the unique 3-plane cylindrical basket.

When the upstream water level rises to a high level set point, the rake arm begins to rotate for removal of the captured material. After the rake arm

makes a complete revolution, material falls into a collection trough. For complete cleaning, the rake arm reverses direction at the top of the screenings basket and passes through a hinged cleaning comb. The debris is removed from the collection trough by a central screw conveyor. The conveyed material travels up the inclined transport tube where the material is washed, compacted, and dewatered prior to being discharged into a debris container.

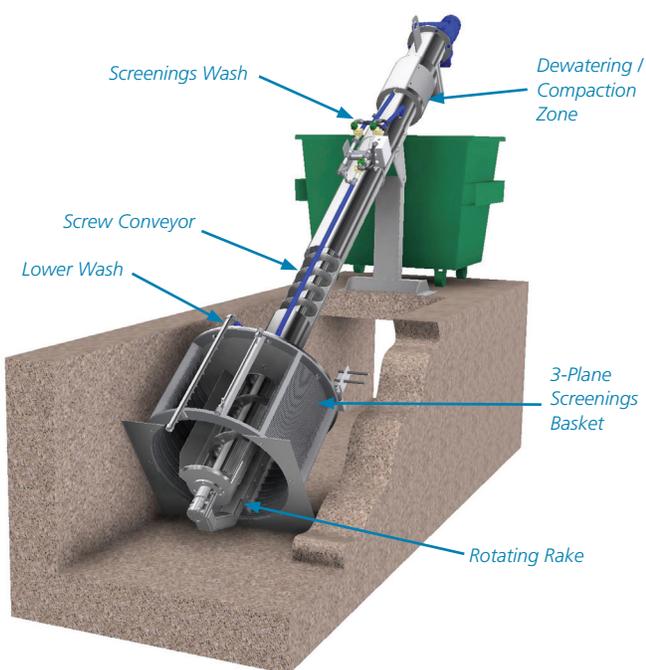
Raptor® Fine Screen with Weather Protection



Raptor® Fine Screens with Conveyor



Tank-Mounted Raptor® Fine Screens Handling Sludge



Raptor® Fine Screen

- Hinged structural support allows unit to pivot out of channel for maintenance at floor level
- PLC-equipped control panel for versatile and efficient operation
- Simple drive assembly makes service easy and reduces maintenance costs
- All mating parts are machined to ensure proper fit and operation
- Unit is shipped fully assembled to minimize installation expenses
- Entire unit can be enclosed in a pre-engineered tank for additional protection
- Explosion-proof designs are available
- Optional weather protection system protects to 13° F below zero (minus 25° C)

**Stainless steel construction for superior corrosion resistance.**

# Treatment equipment and process solutions from Lakeside Equipment Corporation

Lakeside offers a wide range of equipment and systems for virtually all stages of wastewater treatment from influent through final discharge. Each process and equipment item that we supply is manufactured with one goal: to reliably improve the quality of our water resources in the most cost-effective way. We have been doing just that since 1928.

## **Screw Pumps**

- Open Screw Pumps
- Enclosed Screw Pumps

## **Raptor® Screening**

- Fine Screen
- Micro Strainer
- Rotating Drum Screen
- Septage Acceptance Plant
- Septage Complete Plant
- Complete Plant
- Multi-Rake Bar Screen
- Wash Press

## **Screen and Trash Rakes**

- Hydronic T Series
- Hydronic K Series
- Hydronic Multifunctional Series
- Hydronic H Series
- Catronic Series
- Monorail Series
- HY-TEC Screen
- CO-TEC Screen
- RO-TEC Screen

## **Grit Collection**

- SpiraGrit
- Aeroductor
- In-Line Grit Collector
- Raptor® Grit Washer
- Grit Classifier
- H-PAC®

## **Clarification and Filtration**

- Spiraflo Clarifier
- Spiravac Clarifier
- Full Surface Skimming
- MicroStar® Filter

## **Biological Treatment**

- CLR Process
- Magna Rotor Aerators & Accessories
- Sequencing Batch Reactors
- Package Treatment Plants
- Submersible Mixers & Recirculation Pumps

## **Hauled Waste Receiving Systems**

- Raptor® Septage Acceptance Plant
- Raptor® Septage Complete Plant

## **Package Headworks Systems**

- Raptor® Complete Plant
- H-PAC®

## **Biological Treatment Systems**

- CLR Process
- Package Treatment Plants
- Sequencing Batch Reactors



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