Raptor®
Micro Strainer







Single Operational Unit
Screens, Compacts and
Dewaters in One Process

LAKESIDE
EQUIPMENT CORPORATION
Water Purification Since 1928

Cleaner Water for a Brighter Future®





Raptor® Inclined Micro Strainer Removes Solids Efficiently

The Lakeside *Raptor*® Micro Strainer is an efficient, proven screening technology for removal of inorganic solids that can be harmful to downstream equipment in municipal and industrial wastewater applications. Ideal for small treatment facilities, the *Raptor*® Micro Strainer utilizes a semicircular screenings basket to capture debris, such as plastics, hygienic articles and fibers. The *Raptor*® Micro Strainer features, including the screw conveyor, are all stainless steel construction (304 or 316) to handle the most severe conditions.

At 35° to 45° angle of inclination, the *Raptor*® Micro Strainer provides high removal efficiency using a perforated plate or wedge wire basket with small openings ranging from 0.04 to 0.25 inches (1 to 6 mm). A central screw conveyor with a cleaning brush removes the captured solids from the screenings basket and transports the debris for disposal. As the solids are being conveyed, they are macerated to break down large fecal matter, and then washed using a two-stage screenings wash system to return organic material back to the wastewater stream. The washed screenings are compacted and dewatered prior to being discharged, thereby reducing the volume and weight to a dry solids content of 40 percent, ultimately reducing disposal cost.

Raptor® *Micro Strainer with Bagger*



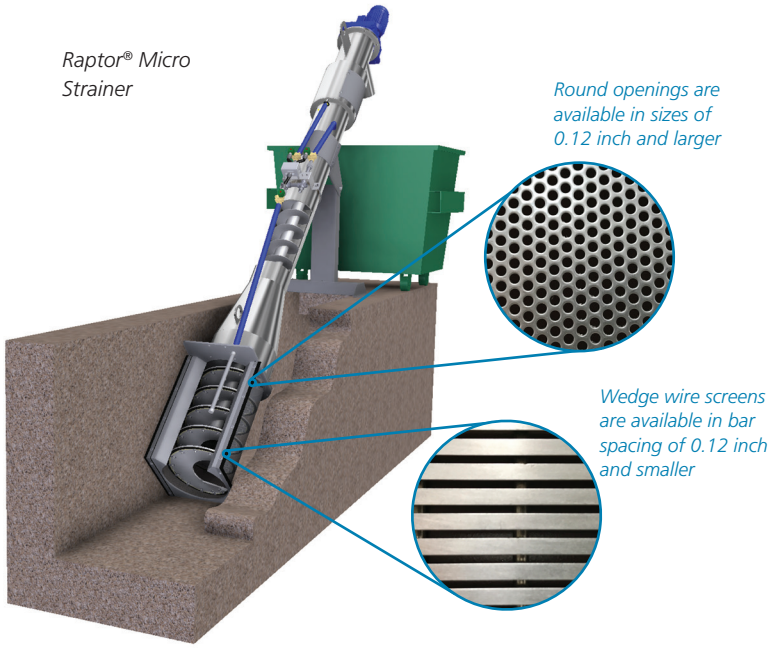
Raptor® *Micro Strainer with Weather Protection*



Superior design and construction

- All stainless steel construction resists corrosion
- Combines 4 processes in one unit (screens, washes, compacts and dewaters)
- 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
- Hinged support to pivot screen out of channel for maintenance
- Removable bearing bars promote longer brush life without disassembling the screen
- Tank-mounted screens and explosion-proof designs are available
- Optional weather protection system protects to 13° F below zero (minus 25° C)

Raptor® *Micro Strainer*



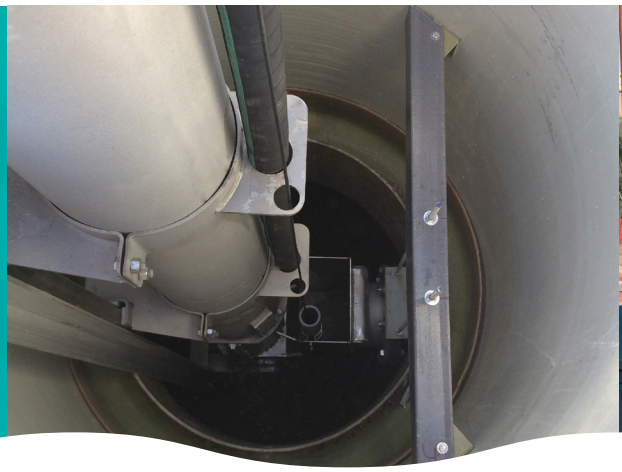
Raptor® Vertical Micro Strainer for Applications with Limited Space

The Lakeside *Raptor*® Vertical Micro Strainer is designed specifically to fit into limited access areas such as wet wells, submersible pump stations, and underground vaults. Similar to the inclined *Raptor*® Micro Strainer, it combines the functions of screening, compacting and conveying into a single unit.

The *Raptor*® Vertical Micro Strainer incorporates a shafted screw with cleaning brush attached to the flights in the basket area to convey captured material for disposal. The split basket design provides easy access to the brush assembly. The screen basket is either perforated plate for wastewater applications or wedge wire for special/industrial applications.

An optional slide rail system is available to allow easy removal of the screen from the wet well or vault. A quick connect flange is used to make sure the screen's head box lines up with the influent pipe connection.

View of Slide Rail and Head Box



Raptor® *Vertical Micro Strainer with Bagger*

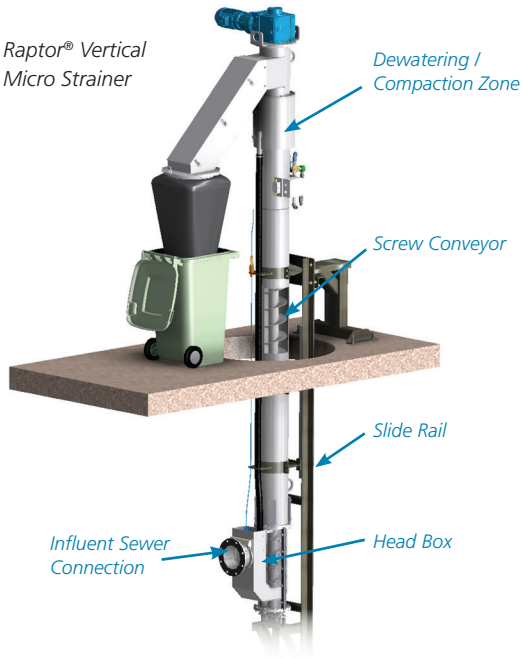


Durability and performance

- Shafted screw for most effective conveying
- Accessible composite bearing bars
- Split screenings basket for easy service
- Optional slide rail system for screen removal
- Discharge chute and optional bagger
- Automated controls

Vertical applications you can rely on

- Submersible pump stations and manholes
- Tank-mounted packaged headworks
- Package treatment systems
- Industrial systems



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
- FalconRake® Bar Screen
- Rotary Strainer Screen
- Wash Press

Trash and Screen Rakes
- Hydronic T Series
- Monorail Series
- HY-TEC Screen

Grit Collection
- SpiraGrit® Vortex Grit Removal System
- Aeroductor Grit Removal System
- In-Line Grit Collector
- *Raptor*® Grit Washer
- Grit Classifier
- H-PAC®

Clarification
- Spiraflo Clarifier
- Spiravac Clarifier
- Full Surface Skimming

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

Hauled Waste Receiving Systems
- *Raptor*® Septage Acceptance Plant
- *Raptor*® Septage Complete Plant
- *Raptor*® FOG Acceptance Plant

Package Headworks Systems
- *Raptor*® Complete Plant
- H-PAC®

Biological Treatment Systems
- CLR Process
- E.A. Aerotor Plant
- Sequencing Batch Reactors
- Continuous Flow Sequencing Batch Reactors

LAKESIDE EQUIPMENT CORPORATION
Water Purification Since 1928

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