



# STRAIGHT TUBE SUCTION CLARIFIERS TO IMPROVE SECONDARY CLARIFICATION

Non-clogging clarifiers

Open RAS troughs provide sludge viewing

Adjusts to changing process conditions

Constructed in galvanized mild steel or  
304, 316 type stainless steel

Low construction and maintenance costs

95% of scum removed in the influent well



# ENVIROQUIP® RAPID SLUDGE REMOVAL CLARIFIERS

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## ADVANTAGES

WHY USE RAPID REMOVAL CLARIFIERS?

PROPERLY DESIGNED ENVIROQUIP® RAPID SLUDGE REMOVAL CLARIFIERS PROVIDE SUPERIOR FEATURES TO IMPROVE THE SECONDARY CLARIFICATION PROCESS.

- Higher return sludge rates, capable of handling 200% of average flow
- Rapid return of activated sludge to aeration basin for process rejuvenation
- Better control of sludge blanket levels in the clarifier
- Lower concrete construction costs
- Flexibility to adjust to changing process conditions (temporary or permanent)

### OPEN SLUDGEVIEWR TROUGHS ALLOW VIEWING OF SLUDGE

- Providing the operator with the opportunity to view the sludge return from each tube, ensuring that pumping rates are as required
- Can also be provided with individual sections of troughs for each sludge return tube
- Controls can be provided to change the head characteristics and suction rate for each tube if the operator needs to vary the sludge flow from the system flow

### NON-CLOGGING CLARIFIERS

Engineers and owners certify that our SS series clarifiers are truly non-clogging. We have eliminated clogging by:

- Drawing sludge from the floor through straight tubes into an open SludgeViewR® trough at the clarifier surface
- Eliminating bent tubes or underwater orifices
- Utilizing equal length draw tubes, eliminating the requirement for flow control devices and providing balanced sludge removal





## EFFECTIVE SCUM REMOVAL

AUTOMATIC OPERATION MADE SIMPLE.

### CENTER PIER DESIGN PROVIDES VERSATILITY



Center piers can be designed to accommodate a variety of functions. Scum and return sludge are kept separate by using multiple collection boxes.

This provides the design engineer with the option of removing scum and gross inorganic floatables at the source and returning them to the headworks, or removing them from the system independently.

A rotating scum beach can be incorporated into the influent well design to achieve this, and the scum can be either discharged down through the center pier or out along the bridge by use of a small submersible pump.

### 95% OF SCUM IS REMOVED INSIDE THE INFLUENT WELL

Ovivo's ScumTrappR™ design includes a stationary bridge mounted scum wiper. This is located inside the influent well and pushes gross inorganic floatables and scum into a separate rotating collection box for removal from the system. Thus, 95% of the floatables are captured inside the influent well. This also eliminates the need for scum to travel across the full surface of the clarifier.

The remaining 5% of the biological scum which does surface outside the influent well is returned with the activated sludge for further treatment.

### DRIVE DESIGN MINIMIZES MAINTENANCE PROBLEMS

Our exclusive Jackbolt™ drive mechanism eliminates the need to take the clarifier offline for bearing or gear replacement. The complete assembly can be replaced in hours using only a small portable hoist, instead of a more costly motor crane required by other drive mechanisms.

## SAME PLANT, SAME FLOWS, SAME TIME.



THEIRS



OURS



# THE OVIVO DIFFERENCE

200+ YEARS OF HERITAGE • 100% FOCUSED ON WATER

## IMPROVED PERFORMANCE

Current reducing flocculating inlet well baffles improve clarifier performance. Octagonal shaped uplifting inlet baffles with floors reduce and redirect currents. This prevents sludge blanket disturbance, while simultaneously directing scum to the water surface inside the clarifier flocculating well for effective scum removal, using the patented ScumTrappR design. Additional foam suppressing spray nozzles emulsify scum foam for effective scum pumping.

## CURRENT REDUCING Baffles PROVIDE:

- Inlet current reduction
- Inlet flow redirection
- Improves scum collection
- Enhanced mixed liquor flocculation for improved settling rates

## MATERIALS OF CONSTRUCTION

Clarifiers are available in galvanized mild steel, types 304 or 316 stainless steel for corrosion free, maintenance free equipment.

## ovivo®connect<sup>SM</sup>

Ovivo® Connect<sup>SM</sup> portal is an innovative and intuitive application that allows our customers to use 'SmartTags' installed on our equipment (or a web URL) to access a personalized customer zone. Access your equipment documentation, find contract references, track service logs, manage spare parts, and plan your next maintenance to get the most out of your equipment.

- NEED **ACCESS** TO YOUR **O&M MANUAL**?
- NEED **SPARE PARTS**?
- WANT THE **LATEST TIPS AND NEWS** ON YOUR ASSET?



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