

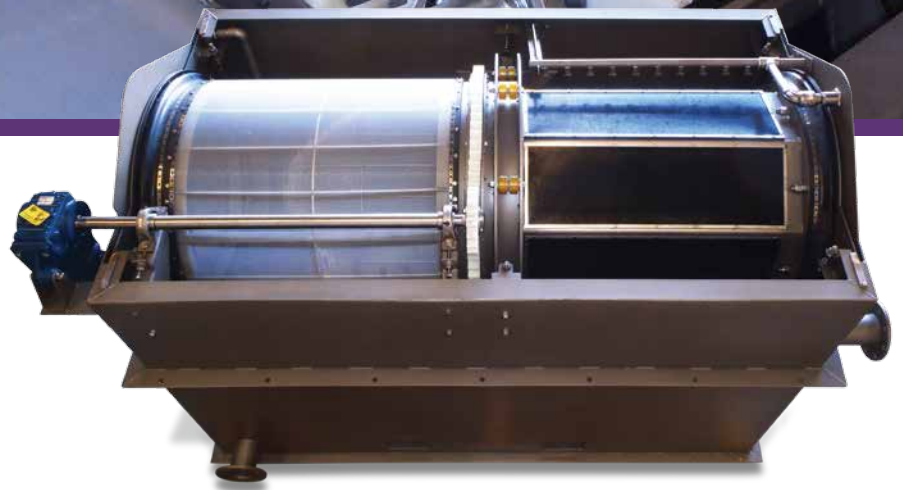
Ovivo - Innovation in Screening Systems



Ovivo® Duet™

Dual Aperture Drum Screen

Cost effective flow-through design for gravity or pumped flows.



Key Features

- Two Screens in One
- Influent Screen – No coarse screen required*
- 3mm ProPaPanel® screening panels for high durability 1st stage screening
- 300-1600 Micron mesh for very fine 2nd stage screening
- Single Low Power Drive
- Built in Redundancy
- Inherent Grit Removal

*CSO applications should have a coarse screen upstream

Key Benefits

- Lower Capital Costs – Fewer Screens
- Lower Construction Costs – Small Footprint
- No Carryover or Bypass of Screenings
- High Capture Efficiency – Minimizes downstream “ragging”
- Lower Operating Costs
- Protects Downstream Equipment
- Flow Through Design – Pump Flow Not Required

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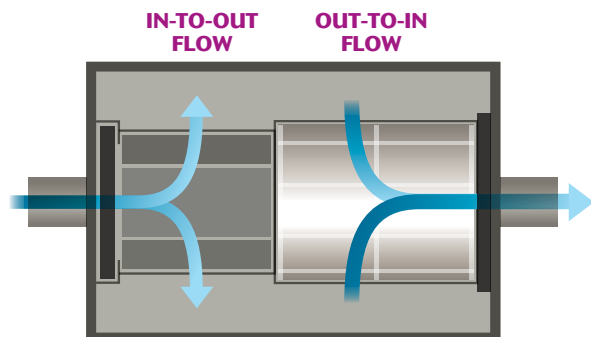
OVIVO®
Bringing water to life®

Ovivo® Duet™ Dual Aperture Drum Screen

Derived from our respected Brackett Green® Center Flow and Drum Screens

With over 20 years of experience building Brackett Green® Center Flow and drum screens, the Ovivo® Duet™ dual aperture drum screen is based on a wealth of proven components and screening design technologies. Key components are all derived from our larger equipment models, and include the ease of maintenance, and robust construction that Brackett Green products are renowned for.

- The drive system is used on drum screens more than 5 times the size
- The rollers have successfully supported screens much larger and heavier
- The patented Propapanel screening panels have been screening wastewater for over 18 years
- The mesh screening material has been used flawlessly for over 18 years



Flow through design

- The influent enters the center of the drum, flowing through patented Brackett Green Propapanel screening panels where large debris is removed without hair pinning
- The wastewater then flows through the second stage mesh from the outside into the center of the drum
- Grit can be removed from the side or pumped out of the tank
- The design allows for easy layouts in a piped or open channel system
- Low head loss—typically below 6" (150mm)



Process and Applications:

The Ovivo Duet dual aperture drum screen is ideal for pre-membrane screening in a wastewater treatment facility. The robust and rigid construction of the 3mm Propapanel screening panels is the ideal first stage screen for removal of wastewater influent debris without excessive blinding. The internal elevators transport the captured debris to an internal trough where low pressure wash water conveys the screenings to a screening handling system.

The second stage mesh can easily be sized to meet the specific needs of the plant, providing removal of the smaller fibrous waste which often fouls membrane systems, pumps, mixers or other downstream process equipment. If not removed, small fibrous material often forms into large rag like clumps downstream. The mesh is protected by the 3mm Propapanel screening panels, providing redundancy to the screening system.

Three separate seals, all of which can be easily inspected and maintained, ensure that the screen has almost no by-pass, resulting in the highest removal efficiency possible. Additionally, the low velocity design of the Ovivo Duet dual aperture drum screen allows grit settlement in the tank. Collected in lower sump, the grit can conveniently be discharged from the side, or pumped out of the tank.

The Ovivo Duet dual aperture drum screen design can also be used for water intakes or for pre-screening of any equipment which needs protection in the 300-1600 micron range but contains source water containing large or sharp debris which would otherwise overwhelm or destroy a mesh screen.

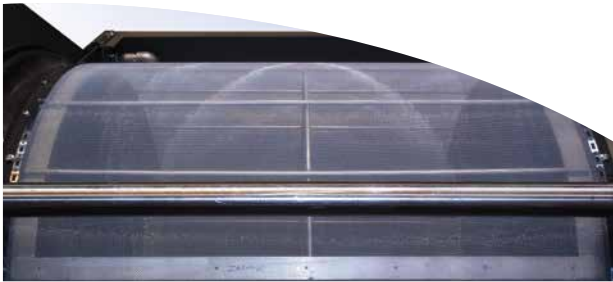
Key Components



The patented Propapanel screening panels utilize thick plastic with molded tapered 3mm holes. This design prevents "Hair Pinning" or clogging while only requiring a low pressure spray wash cleaning system.



Low pressure 30 psi (2 Bar) spray bars effectively clean the Propapanel screening panels and mesh.



The second stage screen is nominally sized with 1600 micron mesh, but it can easily be changed to a size suitable to your specific application.



An internal grit fluidization line and lower sump make grit removal easy.

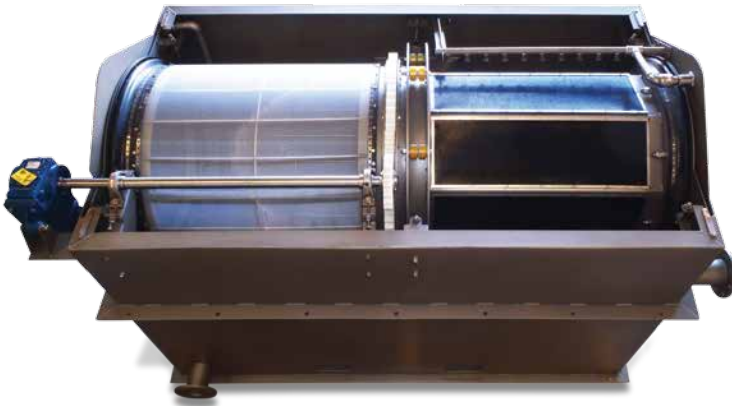


The drive system provides for low maintenance, rugged and proven method of running the screen.



The high wear seals prevent bypass and protect the internal rollers from debris.

Ovivo® Duet™ Dual Aperture Drum Screen



Operational Benefits

- Seals are easily accessible
- Low pressure spray nozzles are easy to service
- The drive system requires very little maintenance
- The rollers are easily accessed from the top and sides of the screen



The Ovivo Duet dual aperture drum screen can be installed in channels or delivered as a self contained unit.



OVIVO® CONNECTSM

Get Connected! Like all Ovivo equipment, your new Ovivo® Duet™ dual aperture drum screen will provide you with access to the Ovivo® ConnectSM portal, our innovative client resource application.

- Need access to your O&M Manual?
- Needs spare parts?
- Want the latest tips and news on your product?



Just scan the QR Code, or type-in the URL featured on the nameplate, to access dedicated web pages that will help you maintain and optimize your plant and your Ovivo equipment!

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