

RIVEER OWS

# OIL WATER SEPARATOR

Separation Efficiency for the Most Stringent Discharge Requirements

TOTAL AUTOMATIC WATER MANAGEMENT

SUMP PUMP OR DIAPHRAGM PUMP RECOVERY

UP TO 30 GPM WATER PROCESS RATE

REMOVES 99% OF OIL IN TYPICAL WASH WATER



**RIVEER**<sup>™</sup>

# SEPARATION EFFICIENCY

## for the most stringent discharge requirements

The Riveer OWS oil/water separator system is a modular, engineered oil/water separator that can easily be integrated with other equipment to meet the industrial user's needs.



The treatment system's single stainless steel tank assembly saves valuable floor space and time during installation. Designed to continuously skim the water's surface to remove even the faintest trace of oil. Once intercepted, the oil is then transferred to a containment compartment where it can be removed easily. A sludge draw-off valve is located on the back of the unit where collected solids can be discharged.

The Riveer OWS is the perfect solution for very low (PPM) discharge level situations required for industrial plants, commercial garages, and cleaning applications. The OWS 500 is capable of delivering discharges under 10 PPM.

### NO PACKS TO CLOG

One of the best features of the OWS is what it doesn't have—coalescing packs. While coalescing packs can be useful in certain situations, they can also clog quickly with suspended oil and grease, and require frequent maintenance. Without regular cleaning and maintenance, clogged coalescing packs can lead to discharge violations and overflows resulting in environmental spills.

### RIVEER OWS AT A GLANCE:

**Simple, above-ground installation**

**No coalescing packs to clog, leading to violations**

**No filters, chemicals, or moving parts – simple design**

**Continuous skim assures efficient separation**

**Easy modification allows wash water to be recycled**

**Simple, minimal maintenance**



- INDUSTRIAL PLANT
- COMMERCIAL GARAGES
- CLEANING APPLICATIONS

# KEY SYSTEM

## Highlights

Total automatic water management

Available with sump pump recovery or diaphragm pump recovery

Oil coalescing media and disk skimmer with collection container

Up to 30 GPM water process rate

Weir tank design guided by API 421 specifications

Effectively removes 99% of oil in typical wash water

Single 110V, 1~, 60Hz power connection to run the entire machine

20ft ground-fault protected power cord provided



### POWER REQUIREMENTS

110V, 1PH, 60Hz, 3 Wire

System equipped with 20ft of power supply cord with ground-fault protected plug

#### OWS-15 General Specifications:

- Equipment Profile Dimensions: 8'-4"L x 3'W x 4'H
- Equipment Weight: Approx. 500 Lbs. Dry
- Weir Tank Capacity: 240 Gallons
- Weir Tank Material: 304L Stainless Steel
- Weir Tank Process Rate: 5-15 gallons per minute
- System Electric: 110V, 1-single phase, 60Hz

#### OWS-30 General Specifications:

- Equipment Profile Dimensions: 96"L x 3'W x 76"H
- Equipment Weight: Approx. 700 Lbs. Dry
- Weir Tank Capacity: 367 Gallons
- Weir Tank Material: 304L Stainless Steel
- Weir Tank Process Rate: 30 gallons per minute
- System Electric: 110V, 1-single phase, 60Hz



#### Riveer OWS Recycling Features:

The water treatment unit shall include the following:

- Type 304L Stainless steel construction
- 3 Chamber settling tank includes coalescing and filtration staging:
  - 1/2 hour minimum dwell time promoting full settling of suspended solids
  - Laminar flow with velocity reducing inlet piping
  - 3 section tank with undercurrent design using stainless steel weir structures
- 237 gallon coalescing tank:
  - 4 cu ft. of coalescing media with over 528 square foot of surface area
  - Highly efficient polypropylene media with 100% pass through design
  - Low velocity flow with modified horizontal fluid path design
  - High efficiency oil skimmer with external oil catch reservoir
  - Waterfall flow distribution through replaceable oil absorbent



## Riveer OWS Water Treatment Tank Assembly Construction:

### Tank Construction:

- All 304L stainless steel & polypropylene construction for years of durable, low maintenance operation
- 12 gauge construction throughout
- Critical seams and structural reinforcement with 12 gauge
- Durable TIG welded

### NEMA4 Wlectrical Components (UL):

- All IEC Allen-Bradley electrical components
- NEMA 4 electrical enclosure
- All devices protected with dedicated circuit breakers
- Control Panel UL certified and serialized with UL label traceable to UL-508A certified panel shop

### System Plumbing:

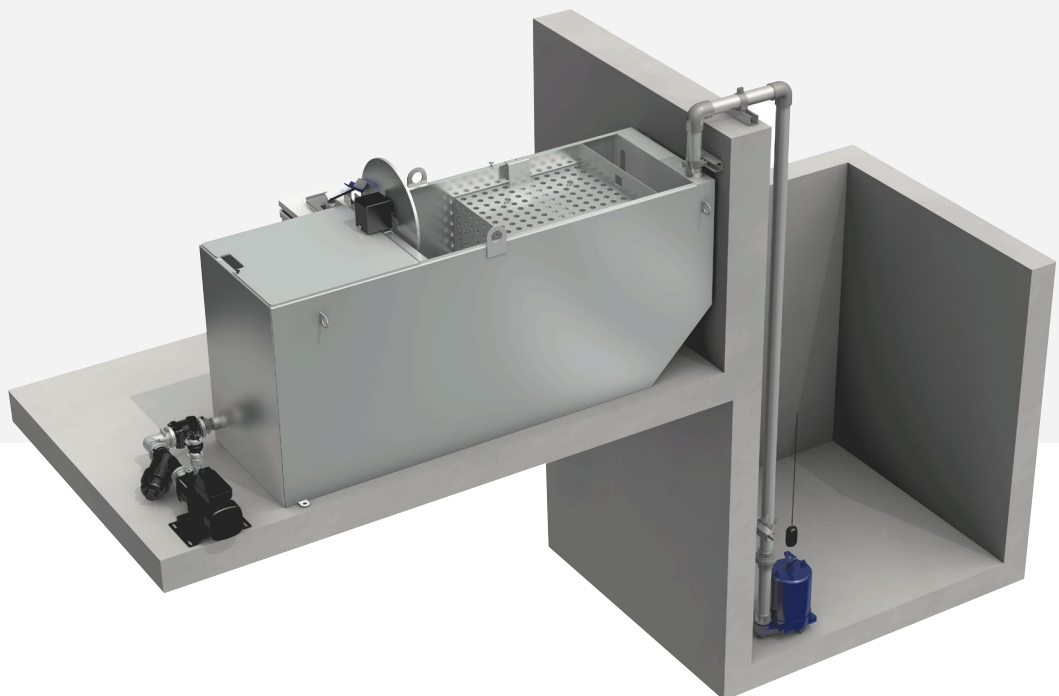
- 304L SS materials including fittings, valves, and piping
- Glass reinforced polypropylene fittings and valves
- PVC interconnecting piping
- Chemical resistant hoses and elastomers

### Water Recovery:

- Via optional diaphragm pump for use with above ground pad:
  - 3/4hp electric diaphragm pump
  - Pump is self-priming from dry start lift of 12ft
  - Run dry Indefinitely without damage
  - Pump capable of moving liquids with up to 50% solids
  - Pump capable of scavenging water without flooded head
- Via optional sump pump for use with in ground collection pit:
  - 1/2hp sump pump constructed from durable cast iron materials
  - Impellor shall be semi-open not clog type
  - Designed for continuous operation

### System Shall Not Include:

- Mild steel components in any wetted sections
- Brass components on any wetted sections



Riveer Environmental employs a quality management system that is ISO 9001:2008 certified.  
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