

OVERVIEW

Striem OS series model OS-100 is a 100 GPM polyethylene oil separator intended for above- or below-grade installation. It is designed to separate oil and other immiscible lighter-than-water contaminants from wastewater and keep them from entering the sewage system.

OPERATION

Oily wastewater enters through the inlet connection. As the wastewater moves through the unit, solids and immiscible lighter-than-water contaminants are separated based on Stokes' Law. Immisicble, lighter-than-water droplets rise out of the wastewater stream, while sediment and sludge settle to the bottom.

LIFETIME WARRANTY

Our products are designed to last the lifetime of the plumbing system in which they are installed. If they don't, we will repair or replace them at no charge. Product damage due to normal wear and tear may be repaired or replaced at a reasonable charge. See website for full details.







OS-100 OIL SEPARATOR Installation, Operation, & Maintenance Guide

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CUSTOMER SERVICE HOURS: 8 AM - 5 PM CST



DO NOT AIR PRESSURE TEST UNIT! DOING SO MAY RESULT IN PROPERTY DAMAGE, SERIOUS BODILY INJURY, OR DEATH! Refer to Installation Instructions for correct testing procedure.

LEAK/SEAL TESTING

Do not air test unit or Teleglide Riser system! Doing so may result in property damage, personal injury or death.

To perform a leak/seal test on the base unit, cap/plug all plumbing connections, remove the cover, and fill the unit with water just above the highest connection. Inspect unit and connections for leaks. Check water level at specific time intervals per local code.

MAINTENANCE

- Always take proper care to ensure a safe and healthy environment while maintaining the oil separator. Avoid the presence of sparks or open flames while maintaining the unit.
- 2 Remove covers.
- 3 Contact a professional pumper contractor to remove all contents of the oil separator, including oil, sediment, and wastewater.
- Clean the drain lines and diffusers thoroughly of all debris.
- 5 Fill OS-100 with water to outlet invert.
- Inspect cover gaskets for wear and tear and replace covers.
- **7** Dispose of contents per local code.

PUMPING FREQUENCY

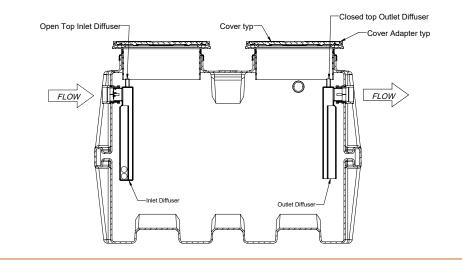
OS-100 must be maintaned prior to reaching maximum oil or sediment capacity for the unit to continue working efficiently.

Pumping frequency depends on the amount of oil and sediment in the wastewater. Monitor oil and sediment levels to determine site specific maintenance schedule requirements.

Oil levels can be tested with a core sampler. Striem recommends a minimum pumping frequency of 6 months.

Slower than usual drainage may indicate a blockage and a need to maintain the oil separator. Ensure the drain lines and diffusers are cleared of all debris in the presence of slow drainage.

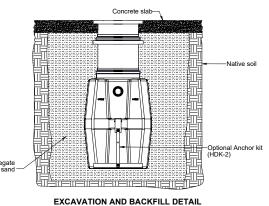
Effluent flow fouled with free oil may indicate the OS-100 has exceeded the maximum oil capacity. In the presence of oil in the effluent flow, maintain the unit immediately.



BELOW GRADE INSTALLATION INSTRUCTIONS

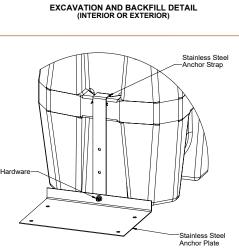
EXCAVATION

- 1 Surrounding soil must be undisturbed soil or well compacted engineering fill.
- 2 Width and length of excavation shall be minimum 12" greater than the tank on all sides.
- 3 Depth of excavation shall be 6" deeper than tank bottom.
- Anchor kit is recommended for installations in high water table conditions to prevent float out. To be determined by specifying engineer. If necessary, order optional "High Water Anchor Kit (HDK-2)". See detail below.

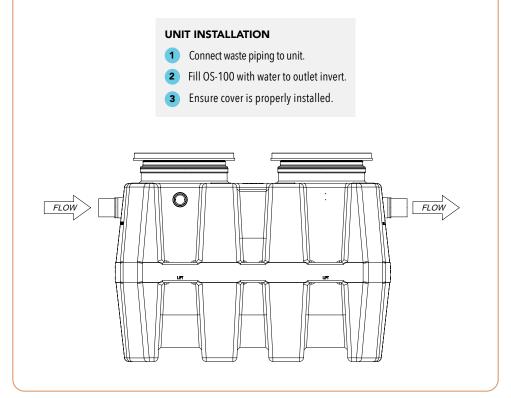


ANCHOR KIT INSTALLATION STEPS

- Slide Anchor Strap over tie down point on end wall.
- 2 Bolt Anchor Strap to Anchor Plate using provided hardware.
- 3 Hold down force achieved by backfill weight acting on Anchor Plate.
- Anchor Plate may be bolted to concrete slab, if required, by using holes provided in Anchor Plate.







UNIT INSTALLATION

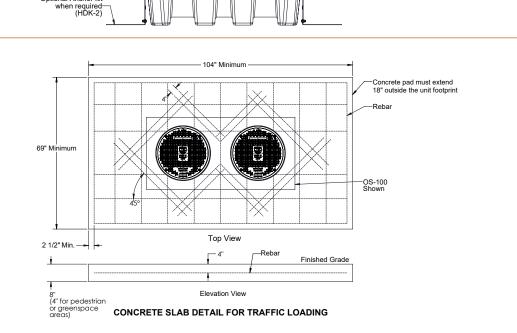
- 1 Lower and center the unit into the excavated hole. Do not use chains or accessways to move the unit.
- 2 The water table must not exceed the tank height prior to the addition of risers.
- 3 Ensure the unit cover is level with finished grade.
- 4 Fill OS-100 with water before backfilling to stabilitze the unit and prevent float out during backfilling.

BACKFILLING & FINISHED CONCRETE SLAB

- 1 Preparation of sub grade per geotech recommendations.
- 2 Stabilize and compact sub grade to 95% proctor.
- Before backfilling and pouring of slab, secure covers and risers (if used) to the unit.
- Place 6" aggregate base under slab. Aggregate should be 3/4" size rock, or sand, with no fines.
- 5 Backfill using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
- 6 Thickness of concrete slab around the covers to be 8" for traffic loading. Thickness of concrete slab around the covers to be 4" for pedestrian or greenspace areas.

Standard Cover Adapter

- Concrete slab cannot interfere with the tank body below the risers.
- 8 Concrete to be 28 day compressive strength to 4000 PSI with 6 ± 1% air entrainment.
- 9 NO. 4 rebar (1/2") grade 60 steel per ASTM A615: connected with tie wire.
- 10 Rebar to be 2 1/2" from edge of concrete.
- 11 Rebar spacing 12" grid. 4" spacing around access openings.



Risers to grade

TELEGLIDE RISERINSTALLATION INSTRUCTIONS

CORRUGATED PIPE RISER KIT (CPRK) AVAILABLE AS ALTERNATE RISER SOLUTION. SEE CPRK INSTALLATION INSTRUCTIONS FOR MORE DETAILS.

Place OS-100 so that the pipe connections line up with jobsite piping
 Measure dimension X to determine riser height needed.

Select the required risers from the adjacent table. Riser chart shows quantity for each tank manway.

 Loosen upper clamp with nut driver bit (included with tank).

- If no risers are needed, adjust cover adapter height as needed.
 Ensure 2-1/2" minimum engagement is
 - maintained.
- Insert cover adapters into the required risers until they stop.
 Tighten upper clamp to keep risers from shifting. Risers are installed from short to long.

Oil Separator vents

to atmosphere (by others)

Optional Anchor kit

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- If using a standard cover adapter, measure the riser height needed, X + 5.25" down the sidewall of the risers.
- If using a cover adapter with Slick Stick[™], measure the riser
- Uninstall cover adapters and risers
 - Extend mark made in step 3 around the circumference of the riser.

Clean out to grade -on outlet pipe of each unit (by others)

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Cut along line with jigsaw, circular saw, or reciprocating saw.
Make a mark around the circumference of the riser 3" from the cut end of riser.

