



OS-25

High Efficiency Oil/Water Separator Installation, Operation, & Maintenance Guide

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Installation, Operation, & Maintenance Guide

OVERVIEW

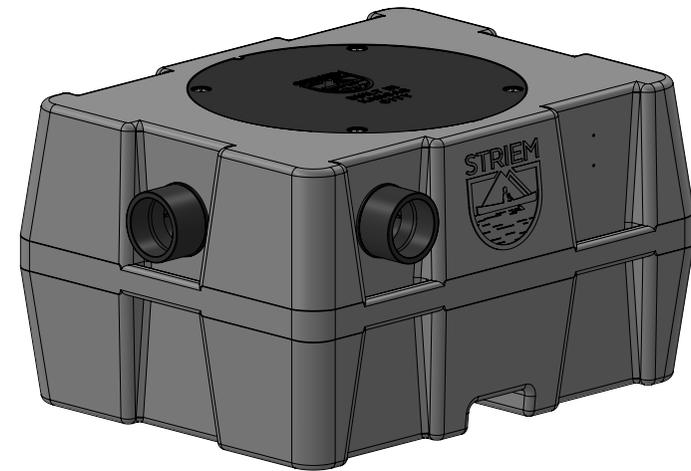
Striem OS series model OS-25 is a 25 GPM polyethylene High Efficiency Oil/Water Separator intended for above- or below-grade installation. It is designed to separate oil and other immiscible lighter-than-water contaminants from wastewater and keep them from entering the sewage system.

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. Immiscible, 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. **FAILURE TO INSTALL IN ACCORDANCE WITH THE INSTALLATION, OPERATION, AND MAINTENANCE GUIDE WILL VOID YOUR WARRANTY.**



OS-25
OS SERIES
25 GPM
HIGH EFFICIENCY OIL/WATER SEPARATOR

913-222-1500 HELP@STRIEMCO.COM STRIEMCO.COM

CUSTOMER SERVICE HOURS: 8 AM - 5 PM CST



WARNING: FAILURE TO INSTALL IN ACCORDANCE WITH THE INSTALLATION, OPERATION, AND MAINTENANCE GUIDE WILL VOID YOUR WARRANTY.



WARNING



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 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.



WARNING: FAILURE TO INSTALL IN ACCORDANCE
WITH THE INSTALLATION, OPERATION, AND
MAINTENANCE GUIDE WILL VOID YOUR WARRANTY.

MAINTENANCE

- 1 Always take proper care to ensure a safe and healthy environment while maintaining the High Efficiency Oil/Water Separator. Avoid the presence of sparks or open flames while maintaining the unit.
- 2 Remove cover.
- 3 Contact a professional pumper contractor to remove all contents of the High Efficiency Oil/Water Separator, including oil, sediment, and wastewater.
- 4 Clean the drain lines and diffusers thoroughly of all debris.
- 5 Fill OS-25 with water to outlet invert.
- 6 Inspect cover gasket for wear and tear and replace cover.
- 7 Dispose of contents per local code.

PUMPING FREQUENCY

OS-25 must be maintained 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.

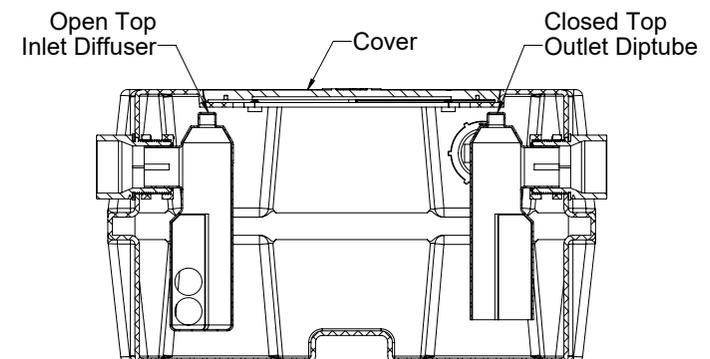
Oil levels can be tested with a core sampler. Striem recommends a minimum pumping frequency of 6 months.

TROUBLESHOOTING TIPS



Slower than usual drainage may indicate a blockage and a need to maintain the High Efficiency Oil/Water Separator. Ensure the drain lines and diffusers are cleared of all debris in the presence of slow drainage.

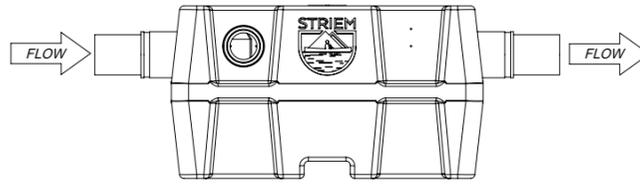
Effluent flow fouled with free oil may indicate the OS-25 has exceeded the maximum oil capacity. In the presence of oil in the effluent flow, maintain the unit immediately.



ABOVE GRADE INSTALLATION INSTRUCTIONS

UNIT INSTALLATION

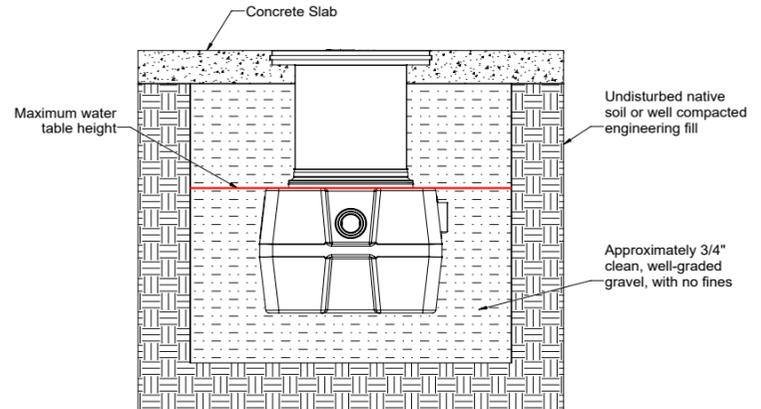
- 1 Connect waste piping to unit.
- 2 Fill OS-25 with water to outlet invert.
- 3 Ensure cover is properly installed.



BELOW GRADE INSTALLATION INSTRUCTIONS

EXCAVATION

- 1 Surrounding soil must be undisturbed native soil or well compacted engineering fill.
- 2 Width and length of excavation shall be minimum 6" greater than the tank on all sides.
- 3 Depth of excavation shall be 6" deeper than tank bottom.

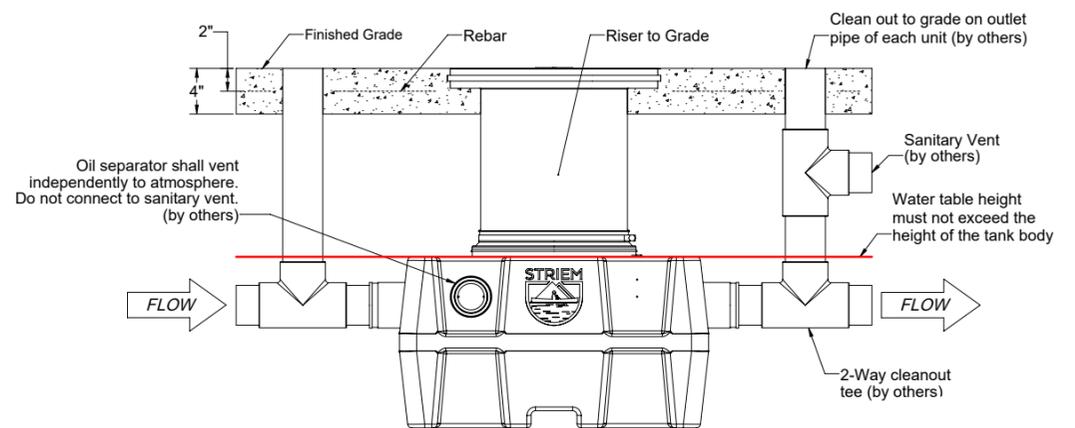


UNIT INSTALLATION

- 1 OS-25 cannot be installed flush with floor. SR-16 riser must be used for below grade installations with a minimum burial depth of 4 inches.
- 2 Lower and center the unit into the excavated hole.
- 3 The water table height must not exceed the height of the tank body. The tank and risers are not intended to withstand groundwater levels above the height of the tank body. Exposure to high groundwater levels may compromise the structural integrity of the tank and risers.
- 4 Ensure the unit cover is level with finished grade.
- 5 Fill OS-25 with water before backfilling to stabilize the unit and prevent float out during backfilling.
- 6 Maximum burial depth: 16" from standard cover height.

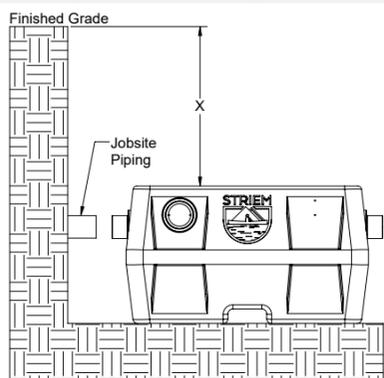
BACKFILLING & FINISHED CONCRETE SLAB

- 1 Before backfilling and pouring of slab, secure cover and riser (if used) to the unit.
- 2 Backfill using 3/4" clean, well-graded gravel, with no fines (AASHTO M43 #57 Stone or similar). **Native soil, sand, and CLSM (aka, slurry or flowable fill) are not acceptable backfill materials.**
- 3 NO. 4 rebar (1/2" grade 60 steel per ASTM A615: connected with tie wire.
- 4 Rebar to be 2-1/2" from edge of concrete.

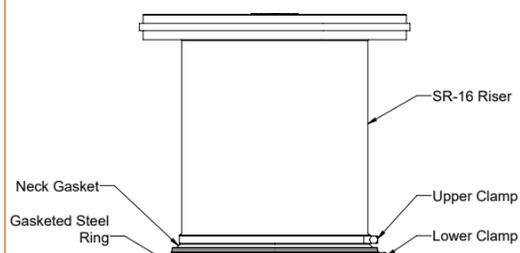


SR-16 TELEGLIDE RISER SYSTEM | INSTALLATION INSTRUCTIONS

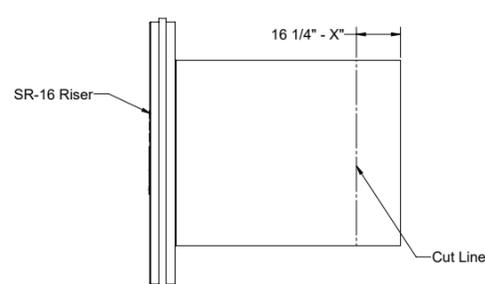
- 1 • Place unit so that the pipe connections line up with the jobsite piping.
• Measure dimension "X" from cover to finished grade to determine riser height needed.



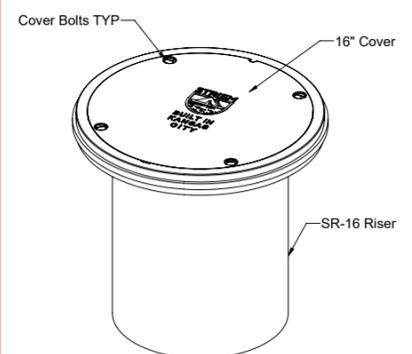
- 2 • Loosen upper clamp with 3/8" deep well socket.
• Remove SR-16 riser from neck gasket.



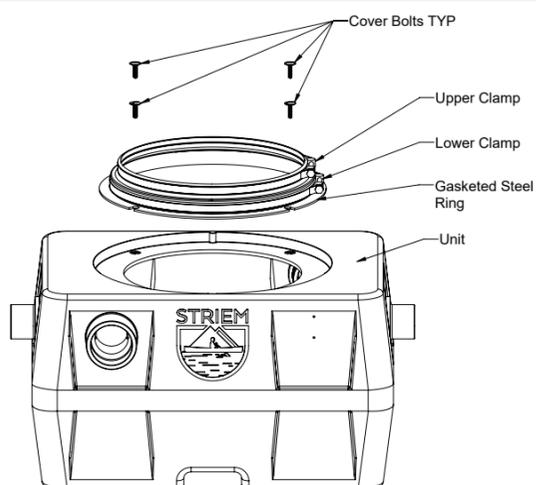
- 3 • Measure the riser height needed, 16 1/4" - X" down the sidewall of the riser.
• Mark the location.
• Extend the mark made around the circumference of the riser.
• Cut along the line with jigsaw, circular saw, or reciprocating saw.
• Remove debris from cut edge with scraper, utility knife, or gloves.



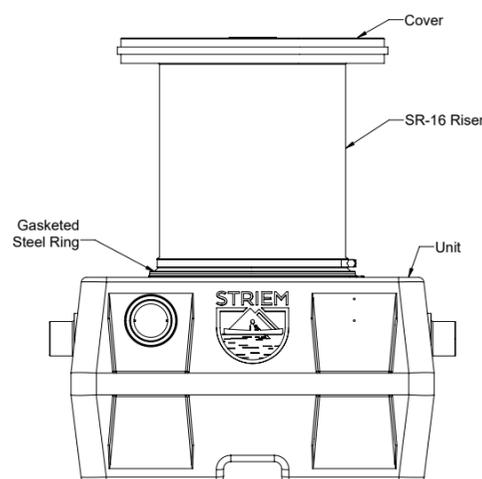
- 4 • Uninstall the cover installed on the unit.
• Install cover on SR-16 with cover bolts (included with tank)
• Hand tighten cover bolts.



- 5 • Center gasketed steel ring on manway.
• Install gasketed steel ring, with attached neck gasket and clamps, onto tank using SR-16 bolts and threaded inserts on tank body.
• Hand tighten SR-16 bolts.



- 6 • Insert SR-16 riser through neck gasket until it stops and is level.
• Tighten all clamps. Striem recommends 57 in•lbs of torque.



- 7 • Ensure cover is level with finished grade.
• Proceed with unit installation.

