



OS-35 OIL SEPARATOR

Installation, Operation, & Maintenance Guide

OVERVIEW

Striem OS series model OS-35 is a 35 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

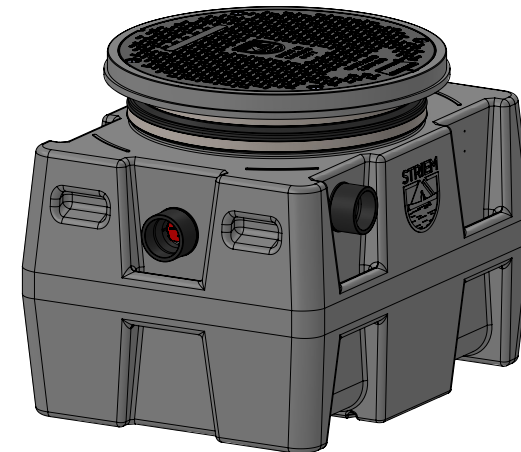
Oily wastewater enters through the inlet connection. As the wastewater moves through the unit, solids and immiscible lighter-than-water contaminants are separated based on Stokes' Law. Immiscible, lighter-than-water droplets rise out of the wastewater stream, while sediment and sludge settle to the bottom.

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.

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OS-35
OS SERIES
35 GPM
OIL SEPARATOR

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

CUSTOMER SERVICE HOURS: 8 AM - 5 PM CST



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 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

- 1 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 cover.
- 3 Contact a professional pumper contractor to remove all contents of the oil separator, including oil, sediment, and wastewater.
- 4 Clean the drain lines and diffusers thoroughly of all debris.
- 5 Fill OS-35 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-35 must be maintained prior to reaching maximum oil or sediment capacity for the unit to continue working efficiently.

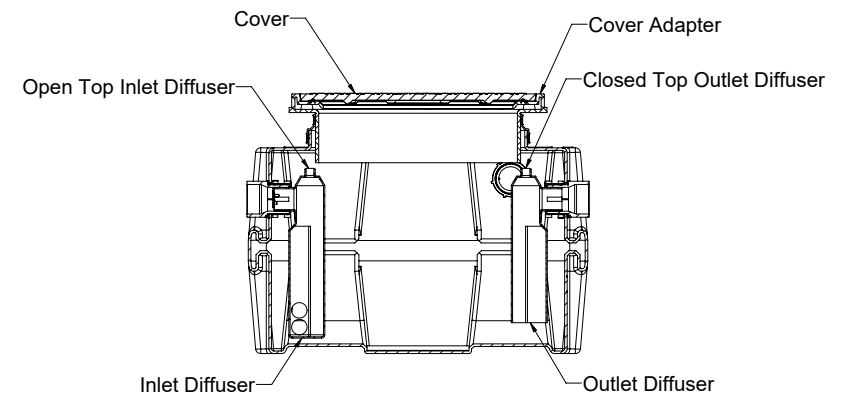
Pumping frequency depends on the amount of oil and sediment in the wastewater. Monitor oil and sediment levels to determine site specific maintenance schedule requirements.

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 oil separator. Ensure the drain lines and diffusers are cleared of all debris in the presence of slow drainage.

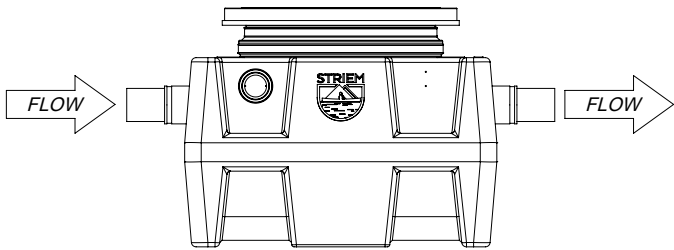
Effluent flow fouled with free oil may indicate the OS-35 has exceeded the maximum oil capacity. In the presence of oil in the effluent flow, maintain the unit immediately.



ABOVE GRADE INSTALLATION INSTRUCTIONS

UNIT INSTALLATION

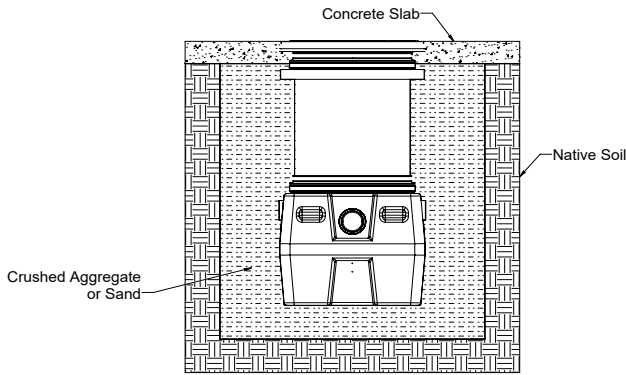
- 1 Connect waste piping to unit.
- 2 Fill OS-35 with water to outlet invert.
- 3 Ensure cover is properly installed.



BELOW GRADE INSTALLATION INSTRUCTIONS

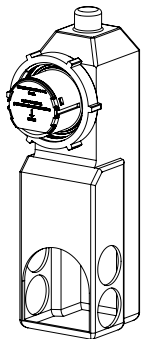
EXCAVATION

- 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.



FLOW PLATE

- Flow plate is calibrated to rated GPM at 13 ft water column.
- When separator is installed in a low flow or reduced head pressure application, do not install the included flow plate.
- When separator is installed in a high flow or increased head pressure application, install the included flow plate.

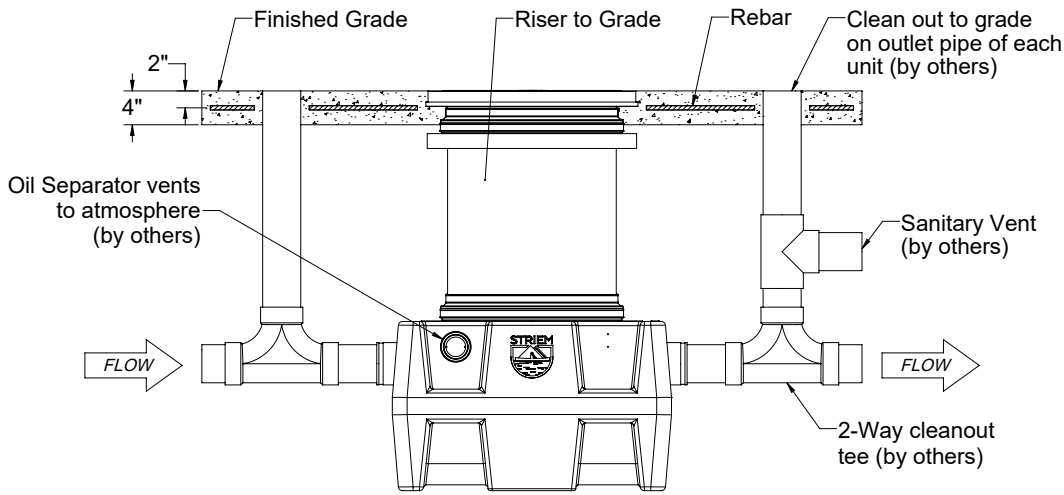


UNIT INSTALLATION

- 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-35 with water before backfilling to stabilize the unit and prevent float out during backfilling.

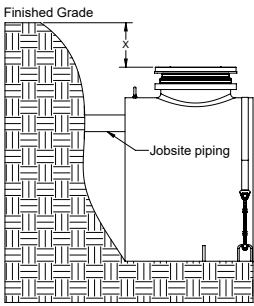
BACKFILLING & FINISHED CONCRETE SLAB

- 1 Preparation of sub grade per geotech recommendations.
- 2 Stabilize and compact sub grade to 95% proctor.
- 3 Before backfilling and pouring of slab, secure covers and risers (if used) to the unit.
- 4 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 around cover to be determined by specifying engineer.
- 7 Concrete to be 28 day compressive strength to 4000 PSI with 6 ± 1% air entrainment.
- 8 NO. 4 rebar (1/2") grade 60 steel per ASTM A615: connected with tie wire.
- 9 Rebar to be 2 1/2" from edge of concrete.



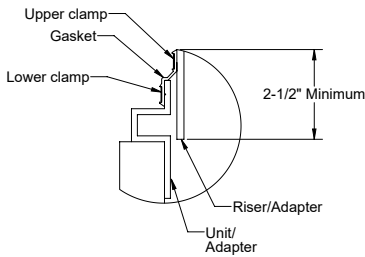
TELEGLIDE RISER | INSTALLATION INSTRUCTIONS

- 1 • Place OS-35 so that the pipe connections line up with jobsite piping.
- Measure dimension X to determine riser height needed.
- Select the required riser from the adjacent table. Riser chart shows quantity for each tank manway.

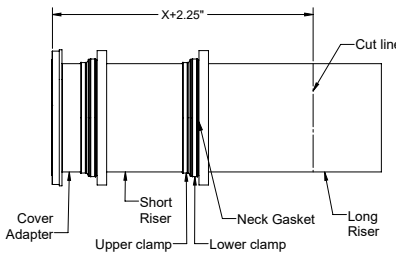


Standard Cover Adapter	
Riser Height Needed	Risers Required Per Manway
0" - 3 1/2"	None
3 1/2" - 22"	SR24 (1)
22" - 37"	LR24 (1)

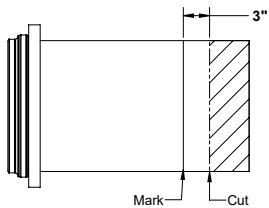
- 2 • Loosen upper clamp with **nut driver bit (included with tank)**.
- If no risers are needed, adjust cover adapter height as needed.
- Ensure 2-1/2" minimum engagement is maintained.
- If risers are needed, remove cover from cover adapter, and cover adapter from the unit.



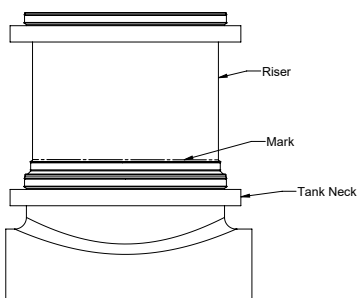
- 3 • Insert cover adapter into the riser, if required, until it stops.
- Tighten upper clamp to keep risers from shifting.
- If using a standard cover adapter, measure the riser height needed, X + 2.25" down the sidewall of the risers.
- Mark the location with **china marker (included with tank)**.
- Cover adapter may need to be adjusted outward for some dimension ranges. If mark is at the end of riser, no cutting is required.



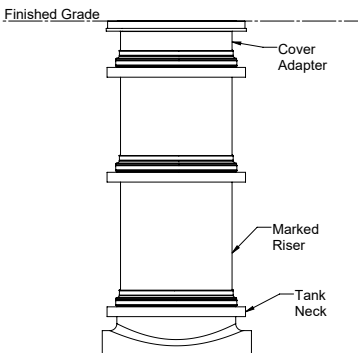
- 4 • Uninstall cover adapter and riser
- Extend mark made in **step 3** around the circumference of the riser.
- Cut along line with jigsaw, circular saw, or reciprocating saw.
- Make a mark around the circumference of the riser 3" from the cut end of riser.
- If no cuts were needed, make the mark 3" from the bottom of the riser.



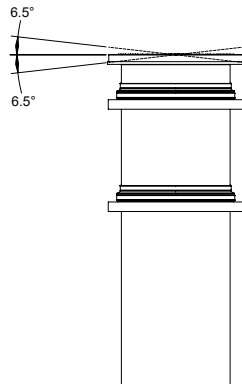
- 5 • Wipe clean all riser and cover adapter sidewalls.
- Insert the first riser into the tank neck until the mark made in **step 4** is in-line with the top of the neck gasket. This will ensure your risers reach the finished grade measured in **step 1**.



- 6 • Install risers and cover adapter into the tank neck starting from the marked riser, moving up to finished grade.
- Upper clamps may need to be loosened or removed to aid in assembly.



- 7 • Tighten all clamps to 14 lbs. of torque.
- Reinstall cover on cover adapter.
- If tilting of the cover adapter is required to be flush with finished floor, it must be done after all clamps are tightened. A 6.5° tilt is the maximum.



- 8 • If jobsite riser height conditions change after the previous steps have been completed, there is still room for vertical adjustment.
- As long as the minimum engagement of 2-1/2" on all joints are maintained, the adapter and riser may be adjusted/cut as many times as necessary.

