



# OT-750 OIL SEPARATOR

Installation, Operation, & Maintenance Guide

## OVERVIEW

Striem Oil Tanker™ model OT-750 is a 750 gallon polyethylene oil separator intended for below-grade installation. It is designed to separate oil and solids from wastewater.

## OPERATION

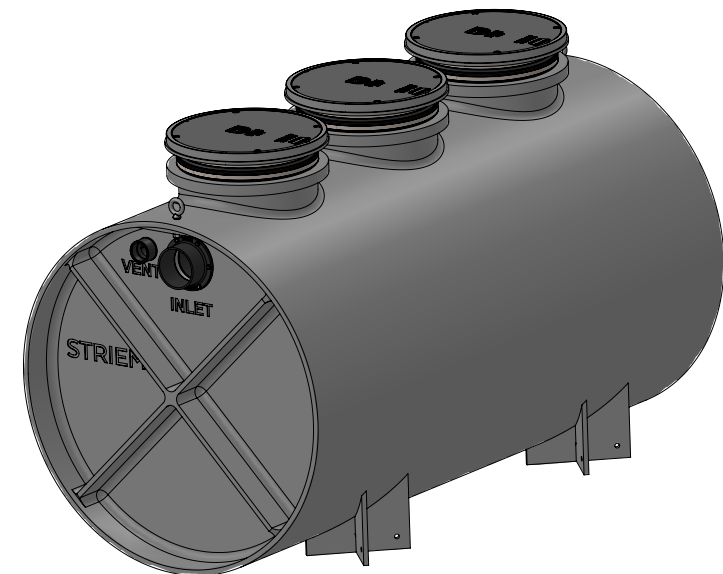
Oily wastewater enters through the inlet connection. As the wastewater moves through the unit, solids and immiscible lighter-than-water contaminants are separated based on Stokes' Law. Immiscible, lighter-than-water droplets rise out of the wastewater stream, while sediment and sludge settle to the bottom.

## 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.

## OT-750 OIL SEPARATOR

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**OT-750**  
OIL TANKER™ SERIES  
750 GALLON  
OIL SEPARATOR

913-222-1500  [HELP@STRIEMCO.COM](mailto:HELP@STRIEMCO.COM)  [STRIEMCO.COM](http://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.

**FOR BURIED APPLICATIONS ONLY**

## 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. Note: This unit has been subjected to a 24 hour water test prior to shipment from the factory.

## 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 covers.
- 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 diffuser thoroughly of all debris.
- 5 Fill OT-750 with water to outlet invert.
- 6 Inspect cover gaskets for wear and tear and reinsert covers.
- 7 Dispose of contents per local code.

## PUMPING FREQUENCY

OT-750 must be maintained prior to reaching maximum oil or sediment capacity for the unit to continue working efficiently.

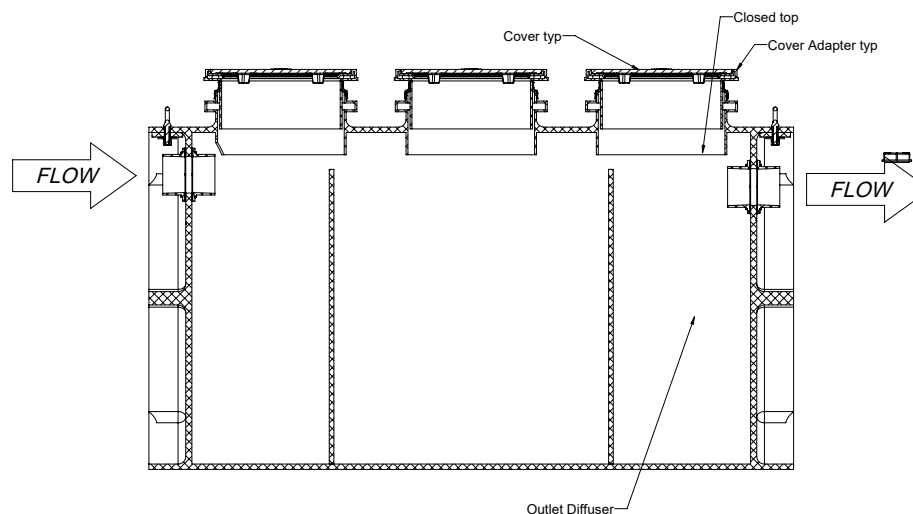
Pumping frequency depends on the amount of oil and sediment in the wastewater. Monitor oil and sediment levels to determine site specific maintenance schedule requirements.

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 diffuser are cleared of all debris in the presence of slow drainage.

Effluent flow fouled with free oil may indicate the OT-750 has exceeded the maximum oil capacity. In the presence of oil in the effluent flow, maintain the unit immediately.



INSTALLATION

EXCAVATION

- 1 Surrounding soil must be undisturbed soil or well compacted engineering fill.
- 2 Measure the width and length of the tank and excavate a hole that is a minimum of 18" greater than the tank on all sides.
- 3 Depth of excavation shall be 12" deeper than tank bottom.
- 4 After the excavation is complete create a well compacted support layer of sand/gravel mixture so that ground supporting tank is a minimum of 12" above native soil.

UNIT INSTALLATION

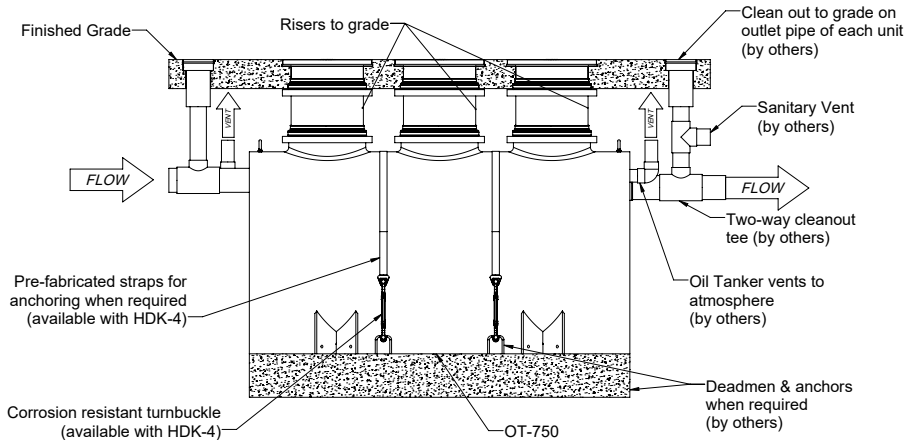
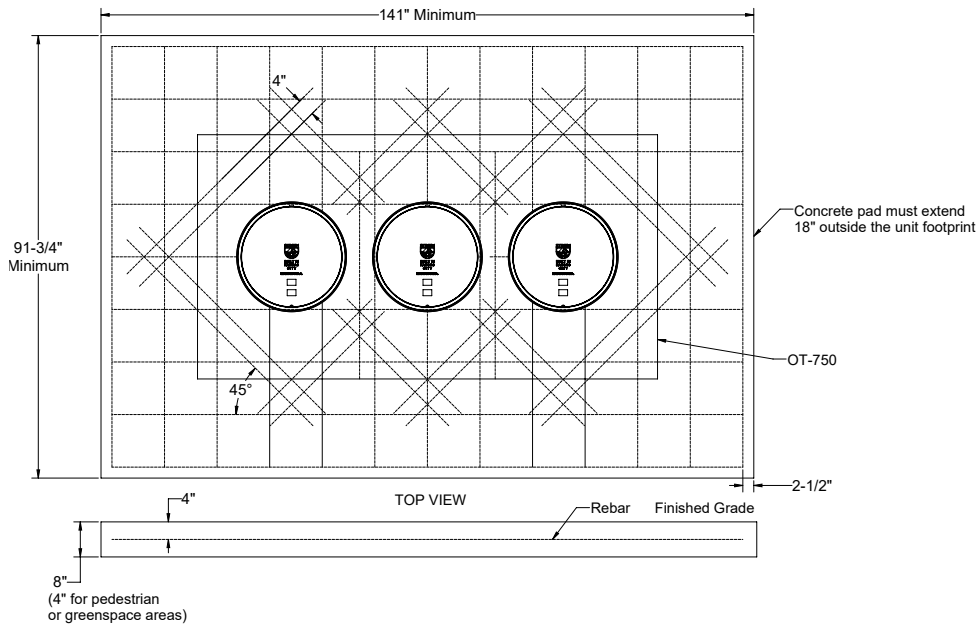
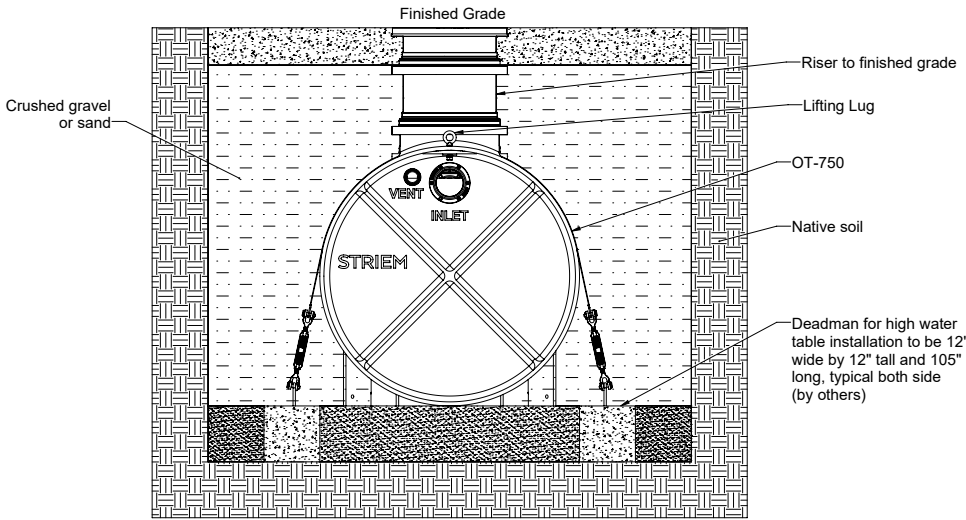
- 1 Lower and center the unit into hole using Striem lifting lug kit (included). Do not use chains or accessways to move the unit.
- 2 The water table must not exceed the tank height prior to the addition of risers.
- 3 Ensure the unit covers are level with finished grade.
- 4 Fill OT-750 with water before backfilling to stabilize the unit and prevent float out during backfilling.

BACKFILLING & FINISHED CONCRETE SLAB

- 1 Before backfilling and pouring of the slab, secure covers and risers (if necessary) to the unit.
- 2 Backfill evenly all around the tank using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
- 3 When backfilling, ensure backfill is worked under the unit using a probe to ensure the unit is fully supported.
- 4 Place 6" aggregate base under slab. Aggregate should be 3/4" size rock, or sand, with no fines.
- 5 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.
- 6 Concrete slab cannot interfere with the tank body below the risers.
- 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.
- 10 Rebar spacing 12" grid. 4" spacing around access openings.

DEADMAN ANCHORING (IF NECESSARY)

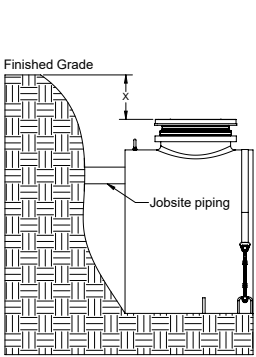
- 1 Deadmen should be constructed according to the American Concrete Institute (ACI) code.
- 2 Deadmen should be 12" wide x 12" tall and 105" long.
- 3 Each deadman should have (2) anchor points for connection to (2) 3,500 lbs. rated turnbuckles.
- 4 The deadmen shall be installed tangent to the tank footprint.
- 5 Pre-fabricated straps rated to 3,333 lbs. each should be connected to a turnbuckle on each side. Turnbuckles should be secured to the deadmen anchor points on each side of the tank such that the tank is held down.



TELEGLIDE RISER | INSTALLATION INSTRUCTIONS

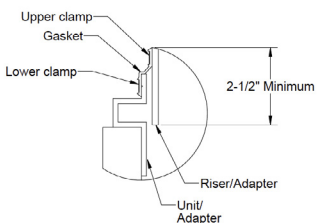
CORRUGATED PIPE RISER KIT (CPRK) AVAILABLE AS ALTERNATE RISER SOLUTION. SEE CPRK INSTALLATION INSTRUCTIONS FOR MORE DETAILS.

- 1 Place unit 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.

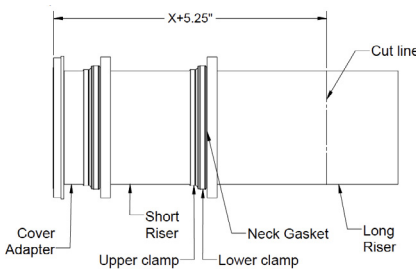


Standard Cover Adapter	
Riser Height Needed	Risers Required Per Manway
0" - 5"	None
5" - 24"	SR24 (1)
24" - 39"	LR24 (1)
39" - 43"	SR24 (2)
43" - 58"	SR24 (1), LR24 (1)
58" - 72"	LR24 (2)
72" - 90"	SR24 (1), LR24 (2)
90" - 106"	LR24 (3)
Cover Adapter with Slick Stick™	
0 - 2"	None
2" - 21"	SR24 (1)
21" - 36"	LR24 (1)
36" - 40"	SR24 (2)
40" - 55"	SR24 (1), LR24 (1)
55" - 69"	LR24 (2)
69" - 87"	SR24 (1), LR24 (2)
87" - 103"	LR24 (3)

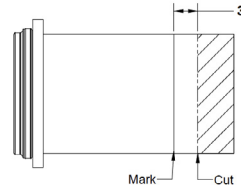
- 2 Loosen upper clamp with nut driver bit (included with tank). If no risers are needed, adjust cover adapter height as needed. Ensure 2-1/2" minimum engagement is maintained. If risers are needed, remove covers from cover adapters, and cover adapters from the unit.



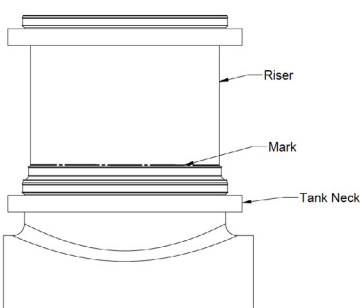
- 3 Insert cover adapters into the required risers until they stop. Tighten upper clamp to keep risers from shifting. Risers are installed from short to long. If using a standard cover adapter, measure the riser height needed, X + 5.25" down the sidewall of the risers. If using a cover adapter with Slick Stick™, measure the riser height needed, X + 7.75" 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.



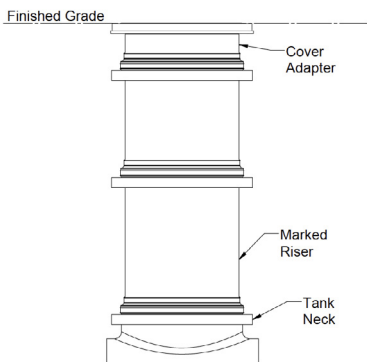
- 4 Uninstall cover adapters and risers. Extend mark made in step 3 around the circumference of the riser. Cut along line with jigsaw, circular saw, or reciprocating saw. Make a mark around the circumference of the riser 3" from the cut end of riser. If no cuts were needed, make the mark 3" from the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



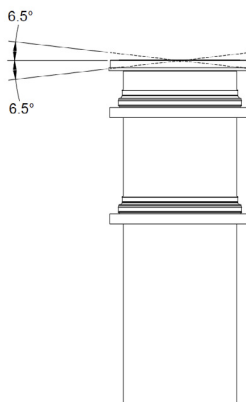
- 5 Wipe clean all riser and cover adapter sidewalls. Insert the first riser into the tank neck until the mark made in step 4 is in-line with the top of the neck gasket. This will ensure your risers reach the finished grade measured in step 1.



- 6 Install risers and cover adapters 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 covers on cover adapters. 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 adapters and risers may be adjusted/cut as many times as necessary.

