LB-125 NEUTRALIZATION TANK Installation, Operation, & Maintenance Guide



LB-125NEUTRALIZATION TANK

Installation, Operation, & Maintenance Guide

OVERVIEW

Striem LB series model LB-125 is a 110 gallon polyethylene neutralization tank intended for above- or below-grade installation. It is designed to bring wastewater to an acceptable state for local wastewater treatment facilities through neutralization or dilution.

OPERATION

Low pH wastewater enters through the inlet connection. As the wastewater moves through the unit, its pH is raised through dilution with neutral water, or neutralization through limestone media.

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.













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

- 1 Always take proper care to ensure a safe and healthy environment while maintaining the neutralization tank.
- 2 Remove cover.
- 3 Contact a professional pumper contractor to remove all contents of the neutralization tank, including wastewater, sludge, sediment, and limestone (if used).
- Clean the drain lines and diptubes thoroughly of all debris.
- Replace limestone, if used. A qualified professional should be responsible for the analysis of effluent, inspection, maintenance, and replacement of neutralizing agent.
- Inspect cover gasket for wear and tear and reinsert cover.
- Dispose of contents per local code.

MAINTENANCE FREQUENCY

Maintenance frequency depends on the quality and contents of the chemical waste passing through the system. Striem recommends inspecting the tank every month to three months until a proper maintenance schedule can be established.

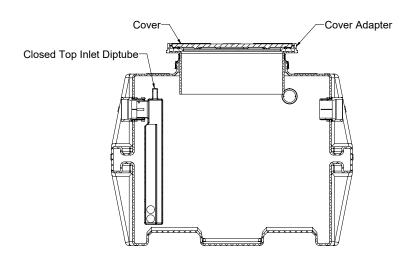
Debris and sludge must be cleaned out periodically to allow the free flow of wastewater through the unit. If it is determined that the system will encounter large amounts of solids, specify a Striem Solids Interceptor.

TROUBLESHOOTING TIPS



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

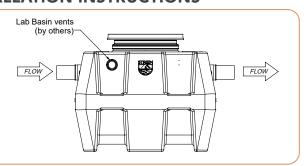
Effluent flow of high pH may indicate that the LB-125 neutralization agent has been depleted. In the presence of high pH effluent, maintain the unit immediately.



ABOVE GRADE INSTALLATION INSTRUCTIONS

UNIT INSTALLATION

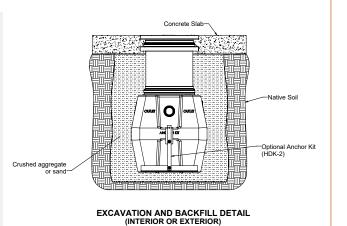
- Connect waste piping to unit.
- If using limestone, add it to the empty tank.
- Fill LB-125 with water.
- Ensure cover is properly installed.



BELOW GRADE INSTALLATION INSTRUCTIONS

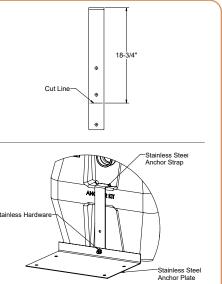
EXCAVATION

- Surrounding soil must be undisturbed soil or well compacted engineering fill.
- Width and length of excavation shall be minimum 12" greater than the tank on all sides.
- 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 adjacent.



ANCHOR KIT INSTALLATION STEPS

- 1 Cut anchor strap to length with 4" grinder with metal cut-off wheel.
- Slide Anchor Strap over tie down point on end wall.
- Bolt Anchor Strap to Anchor Plate using provided
- 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.
- The water table must not exceed the tank height prior to the addition of risers.
- Ensure the unit cover is level with finished grade.
- If using limestone, add it to the empty tank.
- Fill LB-125 with water before backfilling to stabilize the unit and prevent float out during backfilling.

Finished Grade Riser to grade Clean out to grade on outlet pipe of each unit (by others) Lab Basin ven (by others O FLOW FLOW 2-Way cleanout Ontional Anchor Kit tee (by others)

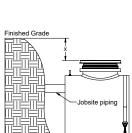
BACKFILLING & FINISHED CONCRETE SLAB

- Preparation of sub grade per geotech recommendations.
- Stabilize and compact sub grade to 95% proctor.
- Before backfilling and pouring of slab, secure cover 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.
- Backfill using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
- 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.
- Concrete slab cannot interfere with the tank body below the risers.
- Concrete to be 28 day compressive strength to 4000 PSI with $6 \pm 1\%$ air entrainment.
- NO. 4 rebar (1/2") grade 60 steel per ASTM A615: connected with tie wire.
- Rebar to be 2 1/2" from edge of concrete.
- Rebar spacing 12" grid. 4" spacing around access opening.

82" Minimum Concrete pad must extend 18" outside the unit footprint 68" LB-125 Top View 2-1/2" Min. -8" — (4" for pedestrian Elevation View

TELEGLIDE RISER INSTALLATION INSTRUCTIONS

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



Finished Grade		
<u> </u>	Standard Cover Adapter	
	Riser Height Needed	Risers Required Per Manway
	0" - 5"	None
Jobsite piping	5" - 24"	SR24(1)
	24" - 39"	LR24 (1)
	39" - 43"	SR24(2)
	43" - 58"	SR24 (1), LR24 (1)
	58" - 72"	LR24 (2)

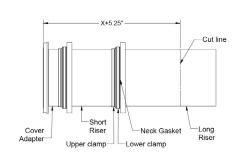
• Place LB-125 so that the pipe connections line up with jobsite piping.

• Select the required risers from the adjacent table. Riser chart shows

• Measure dimension X to determine riser height needed.

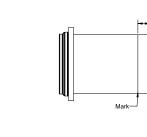
quantity for each tank manway.

- 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
- If risers are needed, remove cover from cover adapter, and cover adapter from the unit.
- Upper clamp
- Insert cover adapter 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.
 - 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.

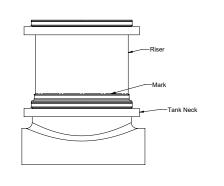


• Tighten all clamps to 14 lbs. of torque.

- Uninstall cover adapter and risers • Extend mark made in step 3 around the circumference of
 - 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.



- 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.



 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

