

What's Included:

LB-2

1. 2 gallon tank with integral 2" FPT spin weld connections (x3)
2. Cover with gasket
3. Captive threaded cover thumb screw (x3)
4. 2" MPT x 1-1/2" FPT bushing (x2)
5. 2" MPT plug

LB-5

1. 5 gallon tank with integral 2" FPT spin weld connections (x4)
2. Cover with gasket
3. Captive threaded cover thumb screw (x3)
4. 2" MPT x 1-1/2" FPT bushing (x2)
5. 2" MPT plug (x2)

Overview

Lab Rat™ Series are acid neutralization or dilution tanks that are intended to be installed in point-of-use sink applications. They are designed to neutralize or dilute low pH wastewater. They are referred to as acid neutralization tanks when a neutralizing medium (e.g., limestone) is present within the tank. They are referred to as dilution tanks when no neutralizing medium is present within the tank.

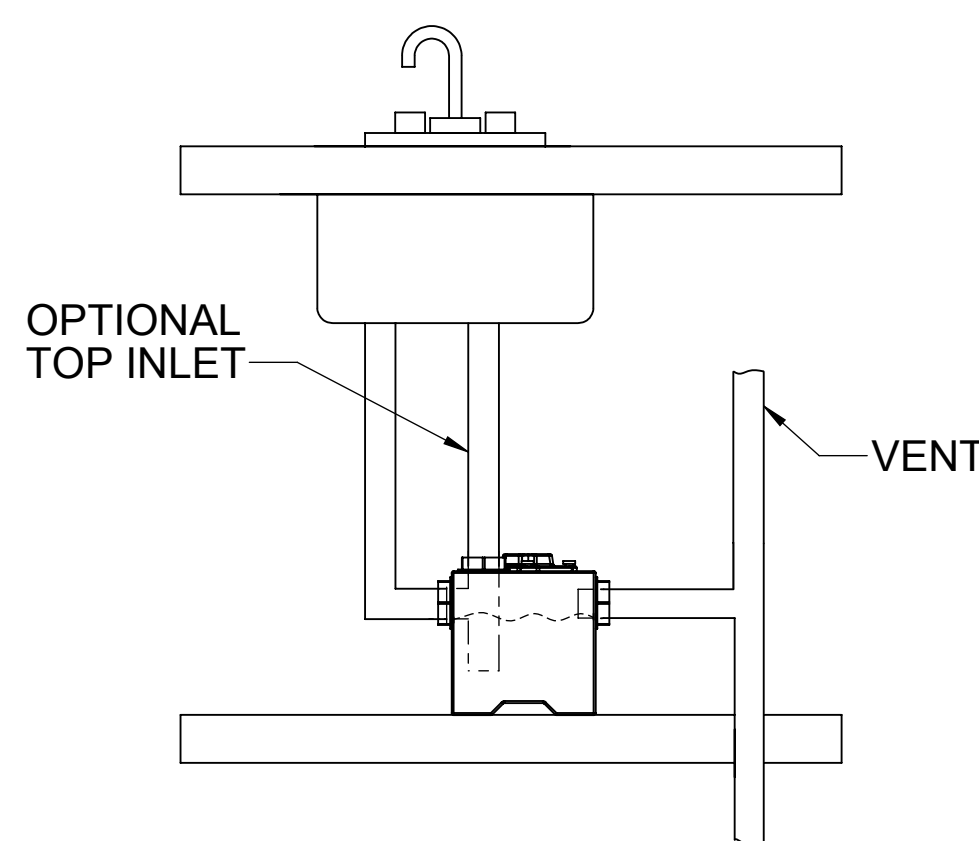
Limestone

When using limestone as a neutralizing medium, Striem requires that it be 2"-3" in size, and has a calcium carbonate content of 90% or greater. Striem offers limestone (sold separately) that meets these requirements. The LB-2 requires 25 lbs. and the LB-5 requires 50 lbs.

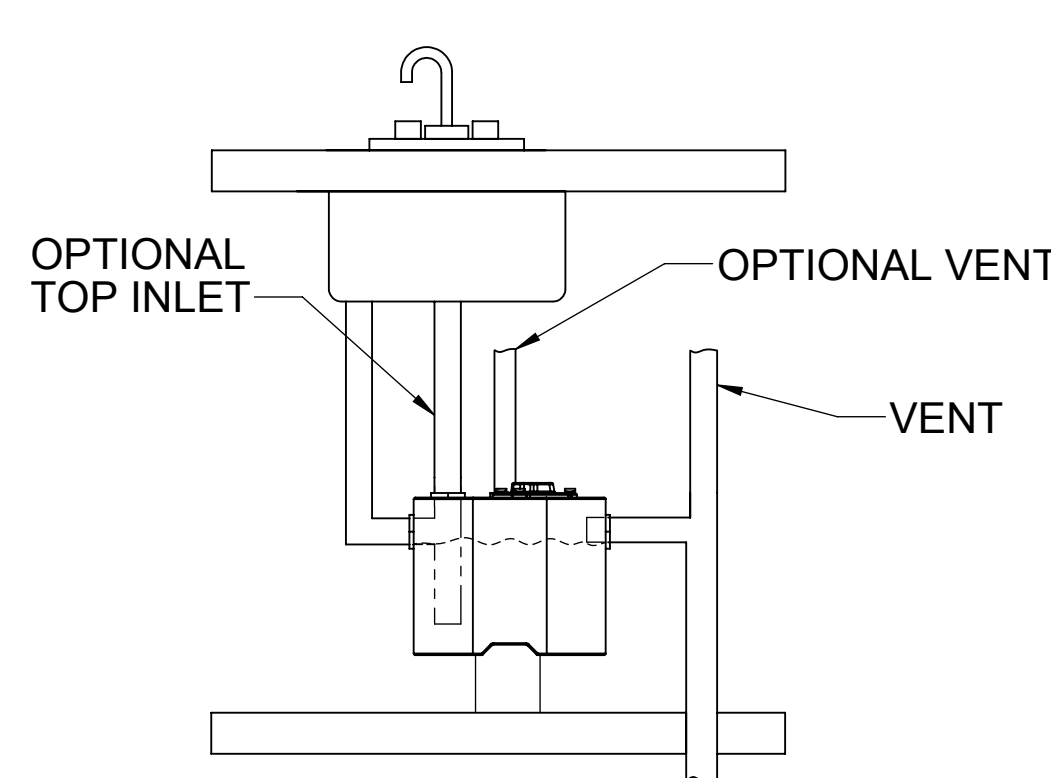
Installation

Striem Chemical Waste Tanks should be installed in accordance with manufacturer's recommendations, specifier requirements, and state and/or local codes.

1. Prior to installation, ensure all components are accounted for, and ensure no component has been damaged during transportation.
2. Lab Rat is designed for above grade or partially-recessed installation only.
3. Install Lab Rat as close to fixture as possible, making sure there is enough room above and around the tank for proper maintenance.
4. Tank must be independently supported to avoid stress on fitting connections. The base is designed to accommodate a 4" plastic pipe (supplied by others) support if tank needs to be raised from a surface (see drawing).
5. Lab Rat is shipped ready for use with 2" connections.
6. To use 1-1/2" connections, install bushings (included) on the inlet (top or side) and outlet side of the tank using pipe thread sealant or tape approved for use with plastics.
7. If using the side inlet, ensure the top inlet is plugged (included). If using the top inlet, ensure the side inlet is plugged.
8. The LB-5 comes standard with an optional vent on the top of the tank. If unused, ensure the vent connection is plugged.
9. Connect piping to the inlet, outlet, and vent (if used on LB-5) with appropriate piping (by others). Do not overtighten fittings.
10. Lab Rat has a built-in sewer gas trap on the inlet, eliminating the need for an additional trap prior to the tank. Check with local codes for trap requirements.
11. Inspect pipe joints to ensure there are no leaks.
12. If limestone is required, fill tank with water before adding limestone.
13. Inspect cover gasket is in working condition, place cover on tank, and tighten yellow thumb screws to secure the cover to the tank.
14. Do not pressure test the tank.
15. System is ready for use.



LB-2 Installation



LB-5 Installation showing 4" plastic pipe support (by others).

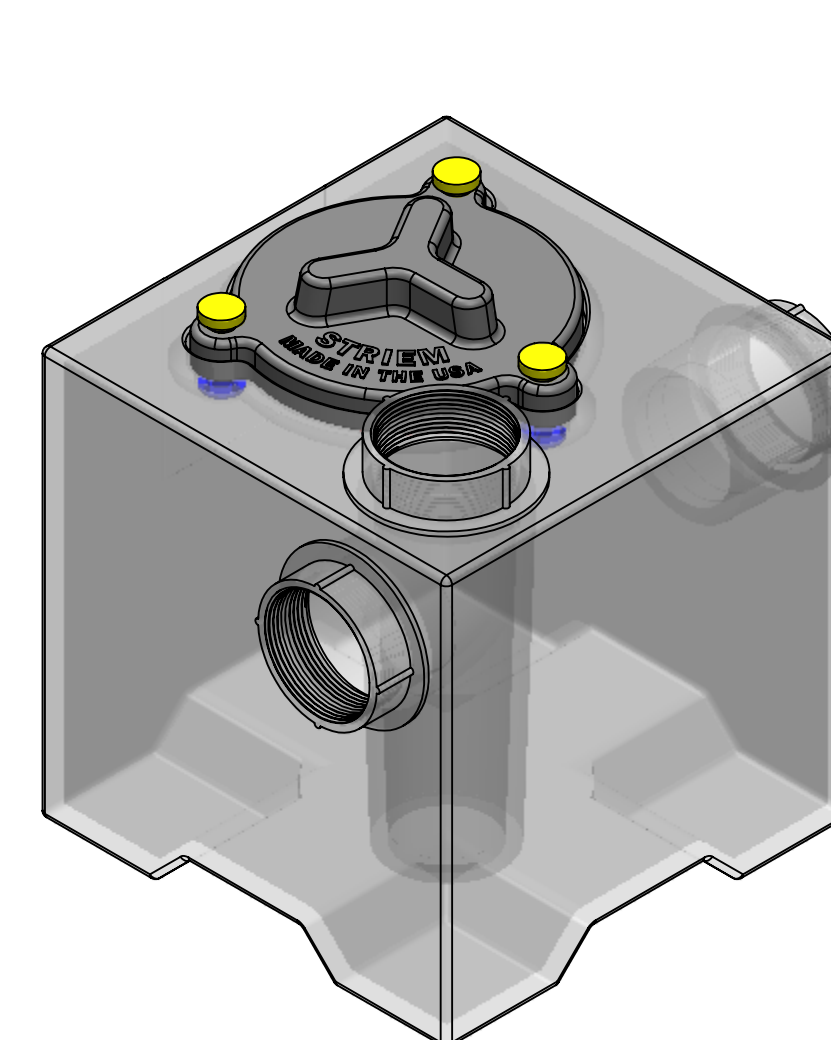
Operation

Wastewater flows through inlet (side or top) and is directed to the bottom of the tank through the inlet diptube. If Lab Rat is used as a neutralization tank, the wastewater is then filtered through a neutralizing agent such as limestone. Wastewater then exits through the outlet of the tank to the sanitary drain system.

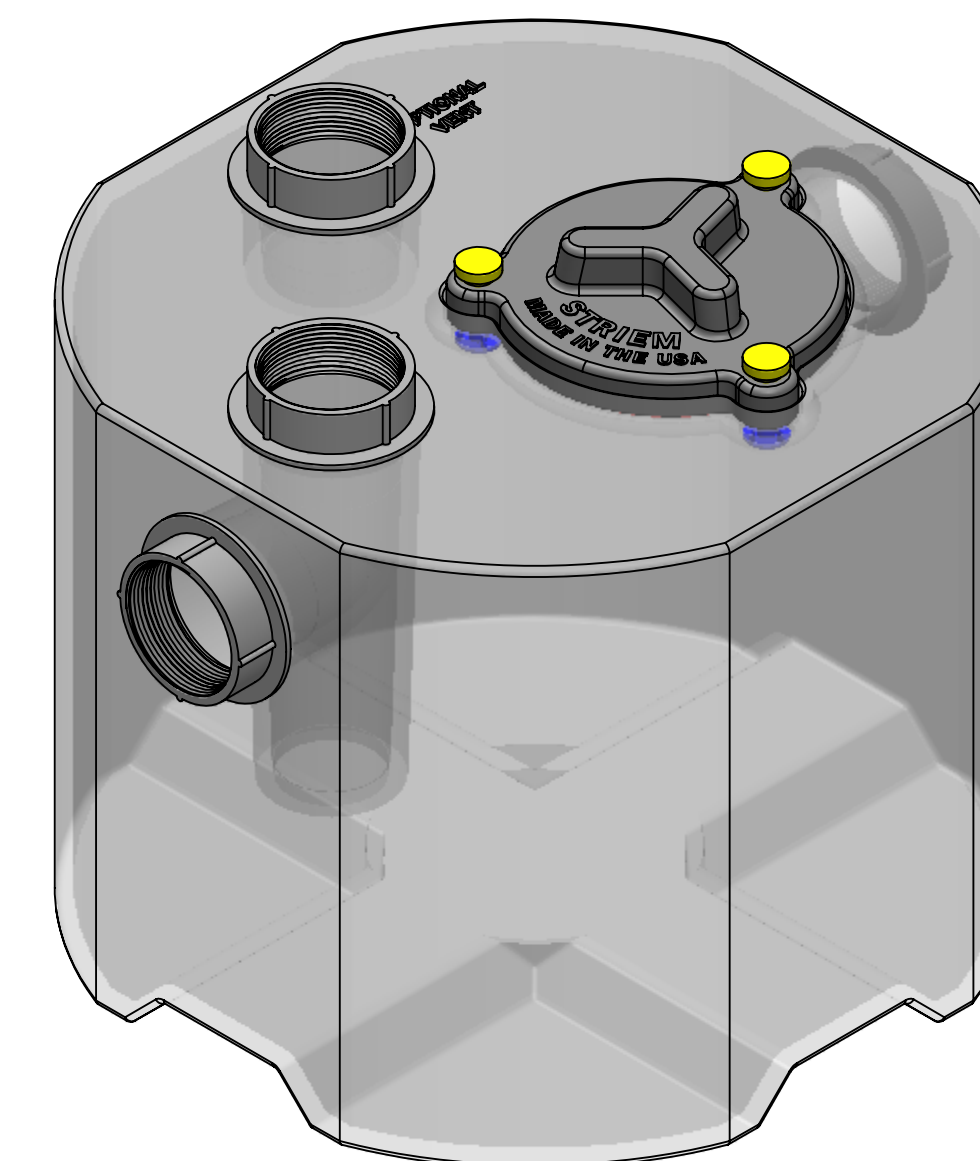
Maintenance

For best maintenance, contact a local sewer or drain contractor. Proper maintenance is essential to keep the Lab Rat in proper working order. Debris entering the tank from a sink or lab station may plug the diptube or inhibit neutralizing agent from operating correctly. If limestone is used as the neutralizing agent, it will deplete over time as it works to neutralize acidic wastewater. Once the limestone is depleted, the tank should be cleared of sludge, sediment, and debris before adding a new charge of limestone. A qualified professional should be responsible for analysis of effluent, inspection, maintenance, and replacement of neutralizing agent.

1. Observe a regular schedule of maintenance. Start by inspecting the new system every 1-3 months until a proper schedule can be established. Maintenance frequency will depend on tank capacity and the contents of chemical waste entering the system.
2. Debris and sludge must be cleaned out periodically to allow the free flow of water through the tank. If it is determined that the tank will encounter solids debris during day-to-day operations, specify or install a Striem solids interceptor upstream. Contact Striem for sizing of solids interceptor.
3. As the limestone is depleted, the tank should be cleared of sludge, sediment, and debris before new limestone is added. When limestone begins to foul, it often dissipates into a muddy substance and the level of limestone will begin to recede. When the limestone is depleted, the tank should be flushed with fresh water, the fouled debris removed from the tank, the tank cleaned, and new limestone added.



LB-2



LB-5

DESCRIPTION:

LAB RAT INSTALLATION,
OPERATION, AND MAINTENANCE GUIDE

DWG BY: RS

DATE: 10/29/19

REV:

ECO:

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NOTES:

Striem Lab Basins are not to be installed in any other manner except as shown. Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions.

PROPRIETARY AND CONFIDENTIAL

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