BB-500

DECONTAMINATION TANK

Installation, Operation, & Maintenance Guide





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OVERVIEW

Bio Basin™ model BB-500 is a 500 gallon polyethylene decontamination tank intended for below-grade installation. It is designed to offer a safe and economical way to contain potentially hazardous liquid waste.

OPERATION

Biological or contaminated liquid waste enters through the inlet connection where it is safely stored for testing, pumping, or to be released into the public sewer system after being determined suitable for evacuation.

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.









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 decontamination tank.
- 2 Remove cover.
- 3 If the decontamination tank is not equipped with an outlet, then contact a professional pumper contractor to remove and dispose of the contents in the decontamination tank.
- 4 If the decontamination tank is equipped with an outlet, then verify the wastewater is acceptable to pass to the sewer system prior to evacuating the decontamination tank.
- 5 Inspect cover gasket for wear and tear and reinsert cover.
- 6 Dispose of contents per local code.

MAINTENANCE FREQUENCY

BB-500 must be maintained prior to reaching maximum capacity. Tank is considered to be at maximum capacity when liquid waste is at or near inlet connection. Maintenance procedure varies based on outlet options.

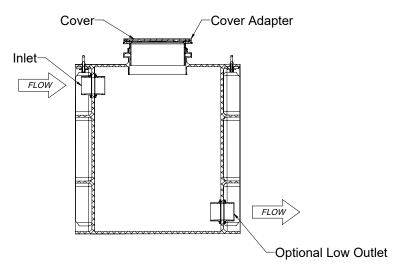
Maintenance frequency depends on the frequency and amount of wastewater introduced to the system.

Monitor wastewater levels to determine site specific maintenance schedule requirements.

TROUBLESHOOTING TIPS



Slow drainage is cause for immediate inspection! Required maintenance depends on outlet option. Call a professional contractor for assistance. Call Striem for details on tank specifications.



EXCAVATION

- Surrounding soil must be undisturbed soil or well compacted engineering fill.
- 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.
- 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.
- The water table must not exceed the tank height prior to the addition of risers.
- Ensure the unit cover is level with finished grade.
- Fill BB-500 with water before backfilling to stabilize the unit and prevent float out during backfilling.
- 5 After unit has been properly installed, evacuate water from BB-500 to prepare for contaminated wastewater.

BACKFILLING & FINISHED CONCRETE SLAB

- 1 Before backfilling and pouring of the slab, secure cover and risers (if necessary) to the unit.
- Backfill evenly all around the tank using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
- When backfilling, ensure backfill is worked under the unit using a probe to ensure the unit is fully supported.
- Place 6" aggregate base under slab. Aggregate should be 3/4" size rock, or sand, with no fines.
- Thickness of the concrete around the cover to be determined by the specifying engineer. If traffic loading is required the concrete slab dimensions shown are for guideline purposes only.
- 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 openings.

DEADMAN ANCHORING (IF NECESSARY)

- Deadmen should be constructed according to the American Concrete Institute (ACI) code.
- Deadmen should be 12" wide x 12" tall and 60" long.
- 3 Each deadman should have (2) anchor points for connection to (2) 3,500 lbs. rated turnbuckles.
- The deadmen shall be installed tangent to the tank footprint.

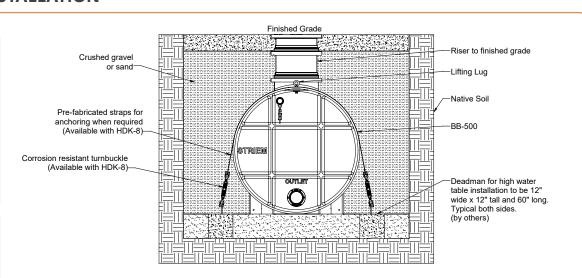
• Place unit so that the pipe connections line up with jobsite piping.

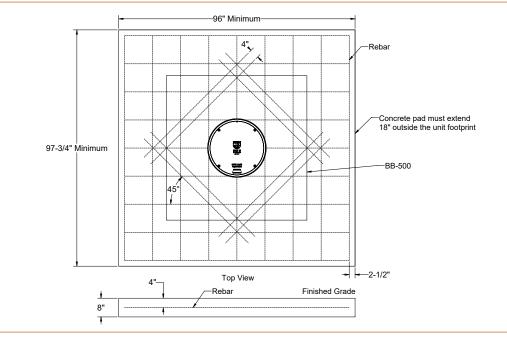
• Select the required risers from the adjacent table. Riser chart shows

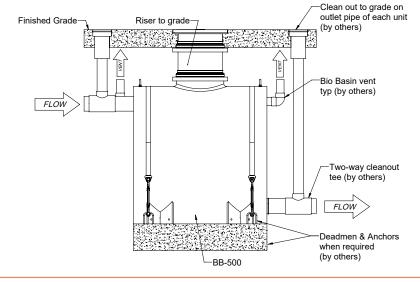
Measure dimension X to determine riser height needed

quantity for each tank manway

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.

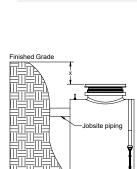






TELEGLIDE RISER | INSTALLATION INSTRUCTIONS

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

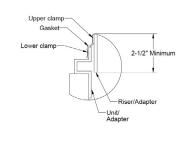


	Standard Cover Adapter	
	Riser Height Needed	Risers Required Per Manway
	0" - 5"	None
	5" - 24"	SR24 (1)
	24" - 39"	LR24 (1)
	39" - 43"	SR24 (2)
	43" - 58"	SR24 (1), LR24 (1)
	58" - 72"	LR24 (2)
Jobsite piping	72" - 90"	SR24 (1), LR24 (2)
	90" - 106"	LR24 (3)
	Cover Adapter with Monitoring Equipment	
	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)

- 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

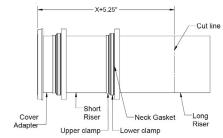


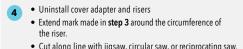
• Install risers and cover adapter into the tank

to finished grade.

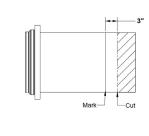
neck starting from the marked riser, moving up

- 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.
 - If using a cover adapter with Monitoring equipment. 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.





- · 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





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.

