



AA-XL SOLIDS INTERCEPTOR

Installation, Operation, & Maintenance Guide

OVERVIEW

Striem Aardvark™ series model AA-XL is a 100 GPM polyethylene solids interceptor intended for above- or below-grade installation. It is designed to capture heavy and suspended solids from in-line drainage applications and keep them from entering the sewage system.

OPERATION

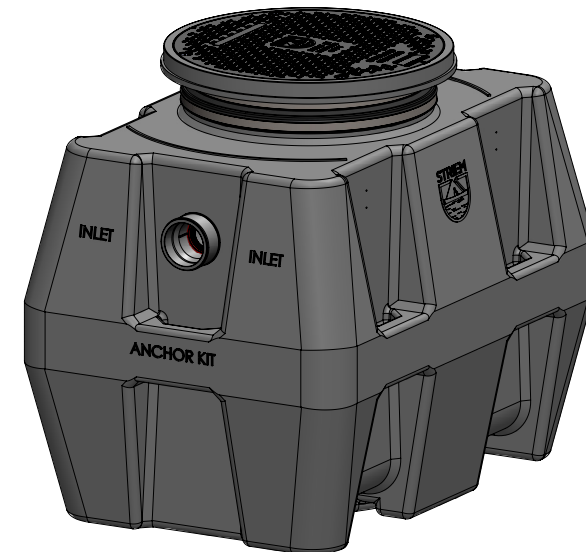
Solids laden wastewater enters the unit through the inlet connection, and flows into the perforated basket through an interlocking inlet flange. Solids collect in the basket as solids laden wastewater flows through the unit. The basket is easily removed to prevent the solids from entering the public sewer or private septic system.

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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AA-XL
AARDVARK™ SERIES
SOLIDS INTERCEPTOR

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 solids interceptor.
- 2 Remove cover.
- 3 Remove basket and empty contents into proper receptacle. Tee-handle can be easily removed to assist in cleaning.
- 4 If there are concerns about fine debris in the main body, it can be pumped clean.
- 5 Replace basket in main body.
- 6 Fill unit with water to the invert of the outlet.
- 7 Inspect cover gasket for wear and tear and replace cover.
- 8 Dispose of contents per local code.

MAINTENANCE FREQUENCY

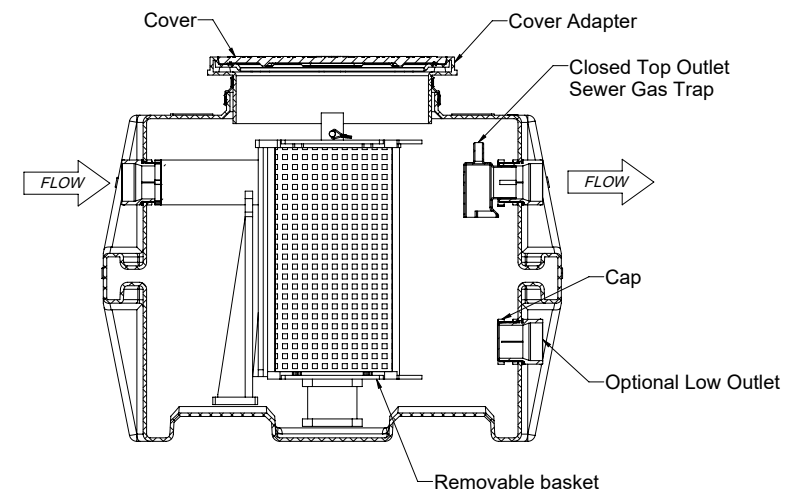
AA-XL must be maintained prior to reaching maximum solids capacity for the unit to continue working efficiently.

Frequency of need to evacuate the basket depends on the amount of solids in the wastewater. Monitor basket solids capacity to determine site specific maintenance schedule requirements.

Fine solids and sediments may settle in the main body of the unit. These may be removed at the end-user's discretion. Frequency depends on the size and amount of solids in the wastewater. Striem recommends a minimum pumping frequency of 6 months.

TROUBLESHOOTING TIPS

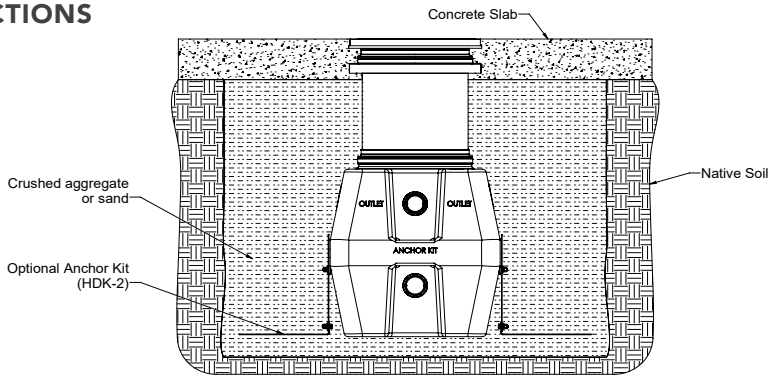
Slower than usual drainage may indicate a blockage and a need to maintain the solids interceptor. Ensure the drain lines, basket, inlet pipe, and outlet sewer gas trap are cleared of all debris in the presence of slow drainage.



BELOW GRADE INSTALLATION INSTRUCTIONS

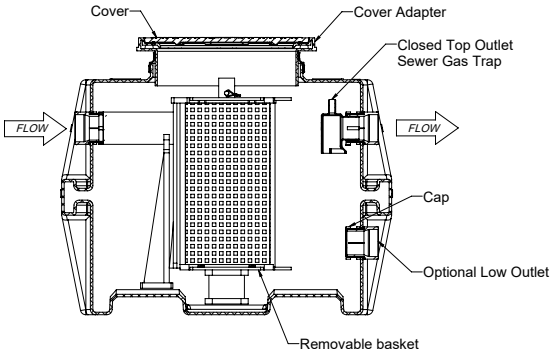
EXCAVATION

- 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.
- 4 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 below.



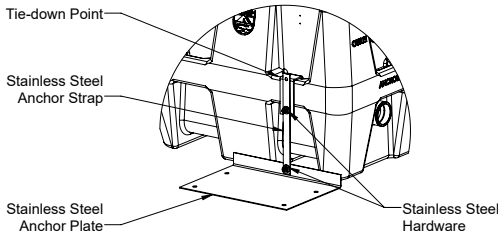
USING THE OPTIONAL LOW OUTLET

- 1 The optional low outlet can be used to achieve a dry basket for increased performance and easy maintenance.
- 2 To use the low outlet, unthread the cap from the low outlet. Unthread the sewer gas trap from the high outlet.
- 3 Thread the cap on the high outlet, and thread the sewer gas trap on the low outlet. Install hand tight then apply an additional 1/4" turn.
- 4 Low outlet is ready for use.



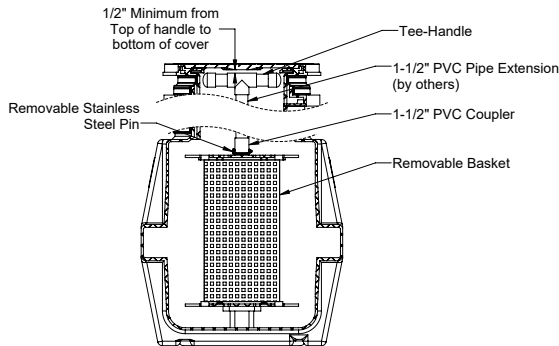
ANCHOR KIT INSTALLATION STEPS

- 1 Slide "Anchor Strap" over tie down point on side wall and bolt together using provided hardware.
- 2 Bolt "Anchor Strap" to "Anchor Plate" using provided hardware.
- 3 Anchor kits to be installed on opposite corners of the AA-XL.
- 4 Hold down force achieved by backfill weight acting on Anchor Plate.
- 5 Anchor Plate may be bolted to concrete slab, if required, by using holes provided in Anchor Plate.



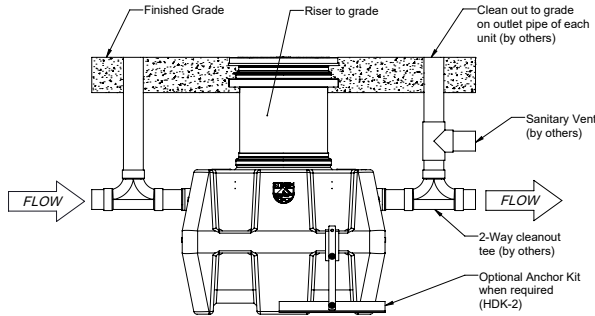
TEE-HANDLE

- 1 Pin the provided 1-1/2" PVC coupler to the top of the basket.
- 2 Determine distance between desired handle placement at grade and PVC coupler.
- 3 Cut 1-1/2" PVC to extend handle.
- 4 Glue both ends of the extension pipe to the female socket connection of the coupler and tee handle for final installation.
- 5 Handle can be easily removed and replaced to assist in maintenance with included pin.



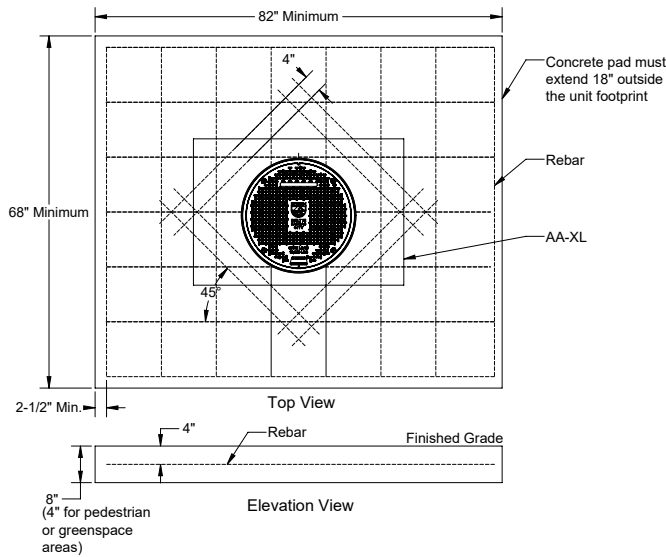
UNIT INSTALLATION

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



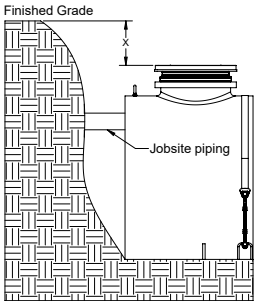
BACKFILLING & FINISHED CONCRETE SLAB

- 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. If traffic loading is required the concrete slab dimensions shown are for guideline purposes only.
- 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.



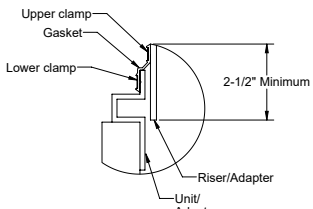
TELEGLIDE RISER | INSTALLATION INSTRUCTIONS

- 1 • Place AA-XL 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.

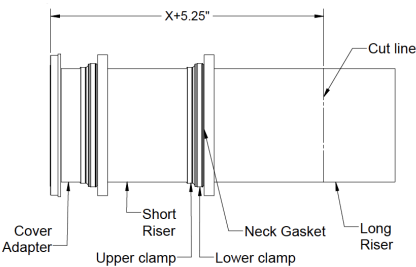


| Standard Cover Adapter | |
|------------------------|----------------------------|
| Riser Height Needed | Risers Required Per Manway |
| 0" - 5" | None |
| 5" - 24" | SR24 (1) |
| 24" - 39" | LR24 (1) |
| 39" - 43" | SR24 (2) |
| 43" - 58" | SR24 (1), LR24 (1) |
| 58" - 72" | LR24 (2) |

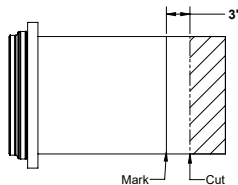
- 2 • Loosen upper clamp with **nut driver bit (included with tank)**.
- If no risers are needed, adjust cover adapter height as needed.
- Ensure 2-1/2" minimum engagement is maintained.
- If risers are needed, remove cover from cover adapter, and cover adapter from the unit.



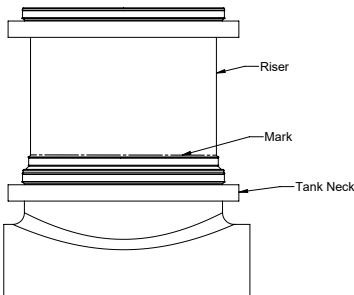
- 3 • Insert cover adapters into the required risers until they stop.
- Tighten upper clamp to keep risers from shifting. Risers are installed from short to long.
- If using a standard cover adapter, measure the riser height needed, X + 5.25" down the sidewall of the risers.
- Mark the location with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



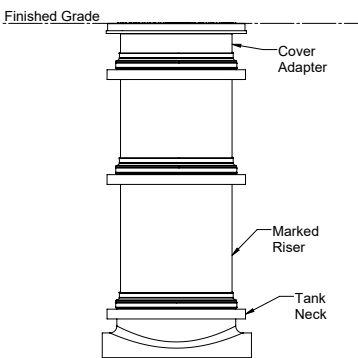
- 4 • Uninstall cover adapter and risers
- Extend mark made in **step 3** around the circumference of the riser.
- Cut along line with jigsaw, circular saw, or reciprocating saw.
- Make a mark around the circumference of the riser 3" from the cut end of riser.
- If no cuts were needed, make the mark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



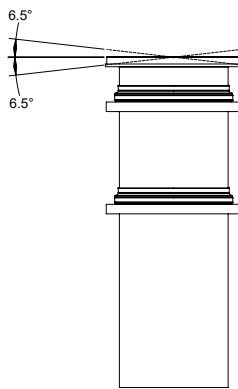
- 5 • Wipe clean all riser and cover adapter sidewalls.
- Insert the first riser into the tank neck until the mark made in **step 4** is in-line with the top of the neck gasket. This will ensure your risers reach the finished grade measured in **step 1**.



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

