

Care of Your Calcamite Tank

Instruction Manual

Amanzi Eco Solutions

1. Overview

Thank you for choosing a Calcamite tank from Amanzi Eco Solutions. Calcamite tanks are designed for efficient, eco-friendly water and wastewater storage and treatment. The Calcamite tank is an innovative wastewater treatment system that uses natural biological processes to break down and treat household or commercial wastewater on-site.

Wastewater enters the tank where solids settle and beneficial microbes decompose organic matter. Treated water then exits the system safely or is reused for irrigation or non-potable purposes.

Built to last with durable materials, these tanks are ideal for residential, commercial, and agricultural use. These tanks will provide many years of quality service if installed correctly and are SABS and SANS certified.

Installation

Installation needs to be carried out by a Calcamite approved Quality Installer (QI). Your local plumber is unlikely to have had the high levels of technical training necessary to complete a quality install. Should you wish your own plumber to install and they are not Calcamite certified, Amanzi will oversee the installation and issue a Certificate of Compliance (CoC) in accordance with the requirements. (Terms apply)

The installation is probably the single most important thing to consider, as bad installs and incorrectly compacted soils have resulted in total tank loss within a very short space of time.

2. Maintenance

Monthly Visual Checks

- Inspect the tank exterior and connections for cracks, leaks, or signs of wear.
- Replace tank treatment chemicals as needed. Take extreme care not to use TCA chlorine, which is formulated for swimming pools and contains IsoCyanuric Acid as a stabiliser.
- The use of incorrect chemicals may result in severe chemical damage, leading to corrosion, pump failure, and possible loss of the entire pump system.
- Only use approved treatment chemicals supplied or recommended by Amanzi Eco Solutions, which are safe for both the tank structure and pump components.

Blower Pump Filter Maintenance

- Blower pump filters must be cleaned, washed, or replaced regularly. This step is vital.
- Dust contamination inside the blower can lead to overheating, ruptured diaphragms, or complete blower failure.
- Inspect filters monthly and follow manufacturer or Amanzi's guidance for replacement intervals.
- Always turn off power before removing or servicing the blower filter components.

Quarterly Inspection

- Check inlet and outlet fittings, seals, and any attached plumbing for blockages, wear, or corrosion.
- Inspect the area surrounding the tank for signs of root invasion. Tree roots can damage the tank structure and plumbing over time.
- Test a water sample for biological load (bio load). Excessive organic material or bacteria can indicate system imbalance or contamination.
- Testing can be done through a certified laboratory.
- Alternatively, Amanzi Eco Solutions offers professional bio load testing and interpretation.

Pump Maintenance

- If a pump is installed, service it according to the manufacturer's instructions.
- Inspect the pump filter and replace if necessary.

Ventilation Check

- Ensure vents are not blocked and allow adequate airflow, especially in underground installations.

3. Care

Avoid Harsh Chemicals

- Do not dispose of toxic, flammable, or corrosive substances in the tank. Use only approved biodegradable products.
- ECO-Friendly is not necessarily BIO-Friendly. Many products labeled as “eco-friendly” may still harm your tank’s biological treatment process.

The following chemicals should never be used or allowed into the septic system:

- Ammonia-based cleaners – e.g., Handy Andy, Toilet Duck, Drain Cleaners
- Household bleach – e.g., Domestos, Jik
- Anti-bacterial soaps and shampoos – e.g., Sanex, Protex, Savlon, Lifebuoy, Selsun Blue
- Anti-dandruff shampoos
- Dishwasher tablets with a red dot
- Bio-Tex and other enzyme-heavy or bio-active laundry detergents

Products Safe for Use

- Green dishwashing liquid (non-antibacterial, biodegradable)
- Most standard washing powders, except enzyme-active brands like Bio-Tex
- Regular hand soaps and shower gels (non-antibacterial)
- Mild shampoos that are not anti-dandruff or medicated

Additional Care Tips

- Do Not Overload: Never exceed the tank’s capacity.
- Protect from Physical Damage: Prevent heavy machinery or sharp objects from impacting the tank.
- Soil and Root Management: Ensure surrounding soil is stable and free of invasive plant roots.
- Label Clearly: Ensure the tank is clearly labeled to prevent misuse.

4. Support

Amanzi Eco Solutions is committed to providing exceptional service and long-term support for your Calcamite tank system.

- **Customer Care Line**
For inquiries, service bookings, or emergency support, contact:
Gary: 082-553-2204
Email: info@amanzieco.co.za
- **Website Resources**
Visit www.amanziecosolutions.co.za for troubleshooting guides, product documentation, service request forms, and eco-care tips.
- **Professional Servicing**
We recommend professional inspection and servicing at least once every 12 months.

Maintenance Contract

Amanzi can provide a monthly or bi-monthly maintenance plan, which covers all the regular monthly maintenance requirements — including the supply of the correct treatment chemicals.

As part of this plan, you also receive special discounts on additional services such as travel, labour, and parts not covered in the contract.

These maintenance contracts are often more cost-effective than purchasing treatment chemicals separately from another supplier — in many cases, the contract cost is lower than the chemical cost alone.

