Installation Manual

EnviroTas-AS

Advanced Secondary Wastewater Treatment System

2026

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wastewater peace of mind

envirotas wastewater

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Introduction

This manual has been provided to assist in the installation of an EnviroTas-AS AWTS (Aerated Wastewater Treatment System). The document is a guide only, do not act solely on the information in this document. If the installation is complex in anyway, please contact us for advice before proceeding.

It is important to note that **only fully qualified personnel can install, commission, service and maintain an AWTS**. Please also ensure that a qualified electrician performs any electrical supply and connection works.

It is also critical to note that this system requires servicing on a regular basis to meet the requirements of system accreditation and the plumbing permit.

Any questions, please don't hesitate to contact the team at EnviroTas.

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Safety Instructions

General Safety

Please adhere to all safety guidelines provided by the onsite builder and ensure you hold the appropriate licenses required to conduct the work.

Make sure appropriate measures are implemented to prevent public access to the site during the AWTS installation. If the AWTS is not installed immediately, any excavated holes must be securely fenced off.

When installing or relocating the AWTS, please ensure to apply safe lifting techniques. Confirm that all lifting equipment is in good working condition and the area is clear of any obstructions. Ensure all equipment used is appropriately rated for the load and has current testing and compliance certification.
See Lifting Instructions Page 8

The wastewater within the AWTS may contain harmful bacteria. Anyone who comes in contact with the wastewater must immediately wash and disinfect the affected areas. For any health concerns, consult your personal physician.

To minimize the risk of electric shock, any work involving access to the blower box before final commissioning must be performed by a licensed electrician or an EnviroTas Accredited Service Agent.

Standards & Licensing

All installations must be completed in accordance with AS/ANZ 3500.1 and AS/ANZ 3500.2.

Irrigation Areas/Land Application Areas (LAA) must be installed as per AS1547 and all relevant State/Local Codes or Guidelines.

Only licensed and appointed tradespeople are to carry out this work.

Site Preparation

Pre-Delivery Site Inspection

A site inspection should be conducted prior to the system delivery to check the following details:

- Access requirements for any machinery
- Overhead obstructions
- Site gradient and terrain
- Ground firm and accessible e.g. Not slippery or sandy

The location of the AWTS should be marked out before any excavation commences. Please ensure that the property owner is aware of the position of the AWTS to avoid any discrepancies.

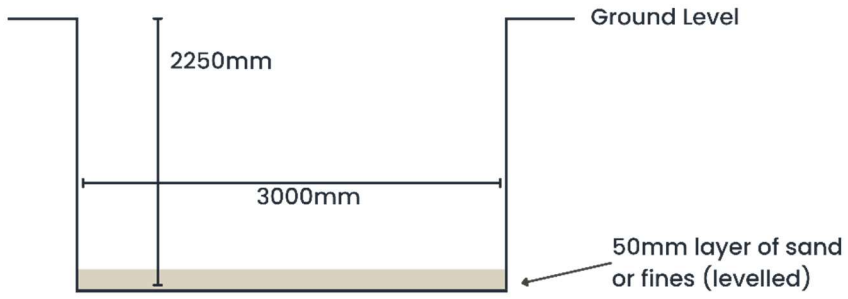
The installer should have access to the approved site plans along with the necessary local authority approvals.

Site Preparation

Excavation: EnviroTas AS-SE (Standard Tank Height)

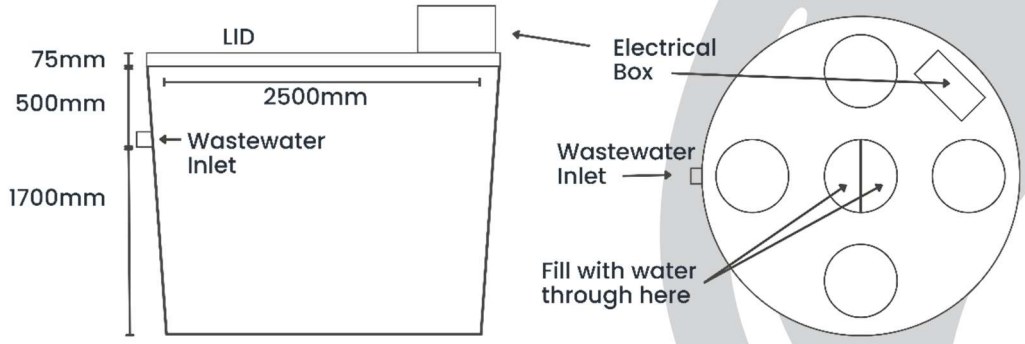
The EnviroTas AS-SE AWTS requires an excavated hole 3000mm x 3000mm x 2250mm finished depth. The excavation should be filled with a 50mm levelled base layer of sand or fines (please refer diagram below). Please ensure that the base material can support a load of approximately 3 ton/m2 and is level.

Flat Site Excavation – EnviroTas-SE (Standard)



After installation, the tank must be filled with 5300 litres of potable water. If the tank is not filled with water, ground water pressures can force the tank to float out of the ground during wet conditions. This is the responsibility of the installer, EnviroTas cannot accept any responsibility if this has not been conducted. Water is also required for the EnviroTas system to be commissioned.

EnviroTas AS-SE Tank Dimensions			
Outside Diameter:	2500mm	Electrical Box Height:	420mm
Overall Height:	2275mm	Inlet Height:	1700mm

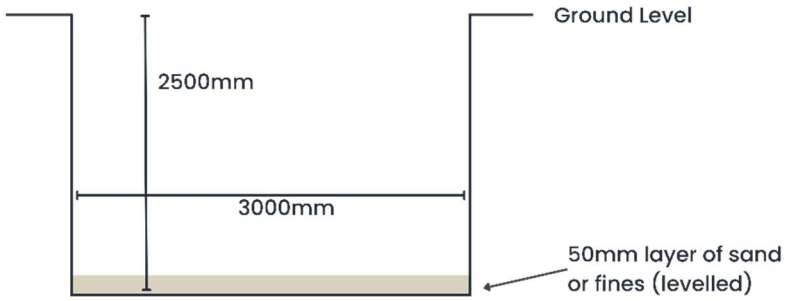


Site Preparation

Excavation: EnviroTas AS-TE (Tall Tank)

The EnviroTas AS-TE AWTS requires an excavated hole 3000mm x 3000mm x 2500mm finished depth. The excavation should be filled with a 50mm levelled base layer of sand or fines (please refer diagram below). Please ensure that the base material can support a load of approximately 3 ton/m2 and is level.

Flat Site Excavation – EnviroTas-TE (Tall)



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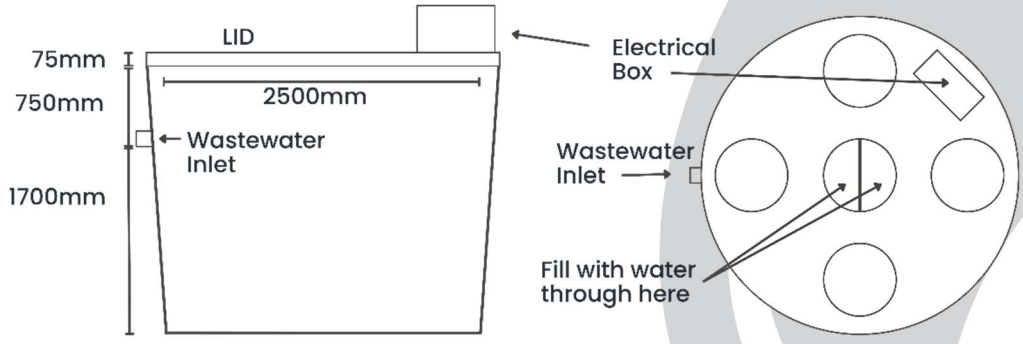
EnviroTas AS-TE Tank Dimensions			
Outside Diameter:	2500mm	Electrical Box Height:	420mm
Overall Height:	2525mm	Inlet Height:	1700mm



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Delivery & Installation

Tank Delivery

In most areas, tanks will be delivered by a truck equipped with a crane located at the rear. The truck will need enough room to lift and slew the tank into position before placing it into the prepared excavation.

Maximum reach from the rear of the truck is 3 metres to centre of the EnviroTas tank.

Please ensure your site is accessible by truck and observe the following access requirements:

- 4.8m minimum height required.
- 3.0m minimum width required
- Site conditions should be dry and stable under foot.

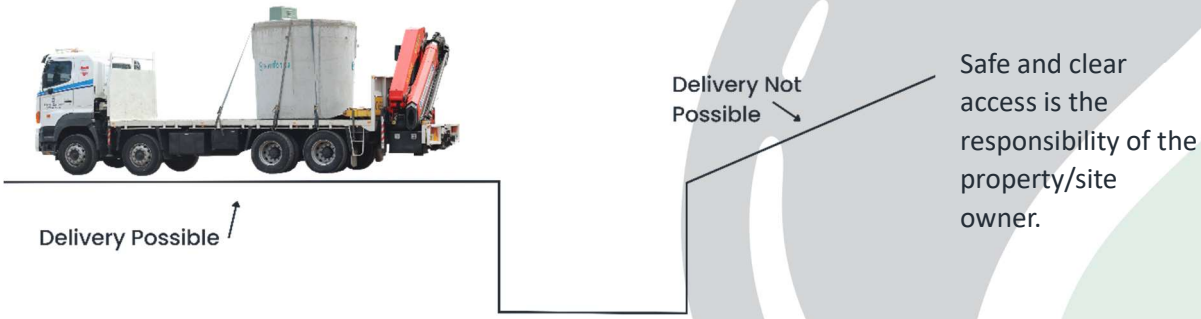
To enable the tank to be unloaded, a minimum width of 6m is required at the excavation site (2.44m truck, 2.48m tank and 1m clearance). This also allows enough space for the crane's outriggers.

Tanks will not be lifted over houses, sheds, or other property of value, nor will they be lifted under low power lines.

Except for the person/s responsible for lifting and positioning of the tank in the excavated site, there must not be any person within 20m of the installation site during lifting and positioning of the tank.

The tank must be level in both inflow/outflow direction and 90o to the inflow/outflow direction (< 1° deviation).

Tank sites that are cut out of sloping hills will require enough flat area for the truck to unload. Unloading on awkward and dangerous sites will be at the driver's discretion.



Safe and clear access is the responsibility of the property/site owner.

Delivery & Installation

Lifting Instructions & Safety

Step 1

Always use a certified spreader bar

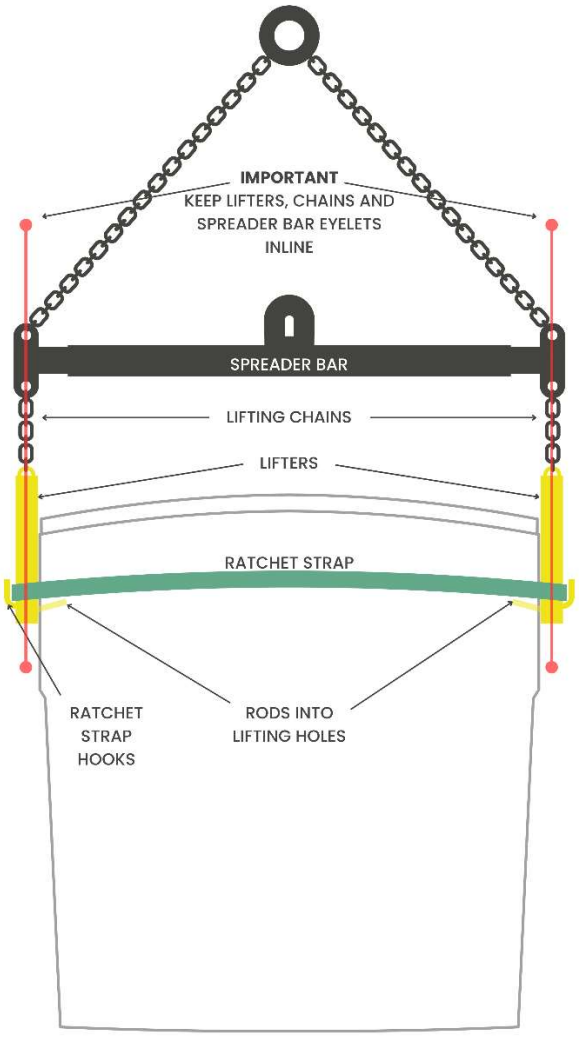
Adjust spreader bar to suit the width of the tank as per the diagram.

It is extremely important that the chains are pulling directly up. Eg not any further in or out from the side of the tank.

Step 2

Attach lifters to the spreader bar and insert rods into lifting holes in the sides of the tank.

Ensure lifting gear is in good condition and fastened correctly.



Step 3

Ensure that the lifting chains are **vertical** and in line with the lifters – see diagram.

Step 4

Place 50mm ratchet strap around the tank and lifters.

Ensure it is attached through the hooks on the lifters to prevent the lifters from slipping out.

Step 5

Before lifting tank, ensure there are no personnel within 10 metres.

Once the tank is fully suspended the rigger can step closer to guide the tank. Except for the person/s responsible for lifting and positioning of the tank, there must not be any person within 20 metres of the tank or installation site during lifting and positioning.

Reach of crane/crane truck to be determined by crane/crane truck operator.

Delivery & Installation

Installation

After the tank has been placed into the excavated hole it must be filled with 5300 litres of potable water. If the tank is not filled with water, ground water pressures can force the tank to float out of the ground during wet conditions. This is the responsibility of the installer, EnviroTas cannot accept any responsibility if this has not been conducted. Water is also required for the EnviroTas system to be commissioned.

The excavation must be backfilled with sand or excavated material/spoil with a maximum particle size of 50mm. Ensure that sand or excavated material does not fall into the tank, as this could potentially clog the system and irrigation pump.

Ensure that the backfill material is kept at least 70mm below the surface of the tank lid. It is important not to create a low point at the tank lid, as this will cause water pooling around the EnviroTas system during periods of heavy rain.

Organise qualified electrical and drainage contractors to connect the EnviroTas system to services.

Please note:

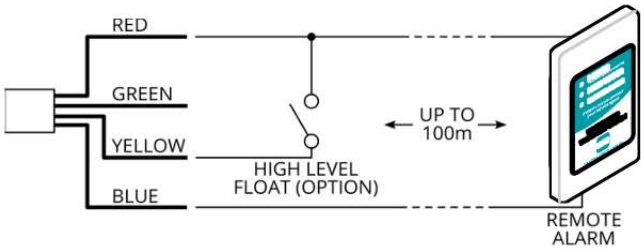
- The electrical contractor must follow the electrical specification supplied with the EnviroTas alarm panel (also see next page).
- The drainage connection is a standard 100mm sewer inlet.

Electrical Specifications

Quick Start Guide

All electrical work must be performed by a licenced electrical contractor in accordance with AS/NZS 3000 and local electrical supply authority rules. A notification of electrical work must be lodged with the supply authority. Please provide this specification sheet and alarm panel to the licenced electrical contractor.

1. Connect the ancillaries to the 4-core cable as per the following diagram:



HIGH LEVEL INPUT NOTE - High level functionality can be triggered either by using an air tube type high level pressure sensor OR a float switch connected to the red and yellow wires of the 4 core cable. If the float switch input is not being used, please ensure that the corresponding wires cannot short out or erroneous high-level alarms can occur.

EXTERNAL MUTE NOTE - The external mute button can be used only to mute the internal siren. Alarm test can be performed only by the mute button on the front panel. Muting for remote alarm can only be performed on the remote alarm itself.

2. Select the use of a strobe or remote alarm panel:
    a. The Treatment Tech BASIC can be used with either a remote alarm indicator or a strobe light and the internal siren can be used for alarm indication.
    b. To switch between alarm plate and strobe modes, press the mute button 3 times within 10 seconds of power on. The selected mode is indicated by the *remote mode* indicator LED.
    c. Please note that Australian standards require audible **and** visual alarm that can be noticed from inside the residence.
3. Fix into position inside the treatment plant motor box, using bolts or self-tapping screws into the 6mm holes in the mounting tabs.
4. Connect the air blower and effluent pump:
5. Where used, connect the air pressure and high-level hoses to the sensor inputs:

SPLICE CONNECTORS - Lever style splice connectors are supplied for joining the output wires to ancillaries. To use, simply strip 10mm of insultation from the wires, lift the lever, insert the wire and close the lever. Typically, only one wire per side; the wires will be joined internally.

ALARM PANEL NOTE - Move the jumper from the off position to the on position (bottom two terminals on the circuit board of the alarm panel).

Scan to download full user manual

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Commissioning

The EnviroTas system is ready for commissioning once electrical power is provided to the system**. The system cannot be commissioned without power.**

Commissioning Checklist:

- EnviroTas is filled with 5300 litres (minimum) of potable water.
- Irrigation area is completed.
- Irrigation line is available at tank.
- Electrical power is connected.
- Drains connected.

It is primarily the owner's responsibility to ensure the above has been completed before the EnviroTas system is commissioned.

Requirements

In the interest of the homeowner and the public, certain requirements are imposed by the regulating bodies regarding the installation of sewage treatment plants; be they EnviroTas, Septic or other systems.

Legal Requirements

The following is provided as a guide only (please check with the local regulating body for further information).

- The EnviroTas AWTS is to be installed in the approximate position indicated in the plan.
- The system may not be used until the site has been inspected and Council considers that the effluent and sullage can be completely disposed of on the site without nuisance or likely danger to health.
- No fruit or vegetable growing on the property shall be irrigated with treated effluent from the AWTS.
- There shall be no irrigated water run-off from the allotment to the adjoining properties, public places, or reserves.
- A user manual is to be provided with the unit.
- The yard or garden areas of the allotment are turfed and/or landscaped to the satisfaction of Council and the Department of Health before the system is used for irrigation purposes.

Detailed conditions of installation are stated on the approval (Plumbing Permit) given to you by the regulating body. Please read them carefully and ask for advice if required.

Requirements

Irrigation Area Council Requirements

Please be aware of Health Authority requirements that: 'There shall be no irrigated water run-off from your allotment to adjoining properties, public places or reserves.'

To ensure that the wastewater remains on the site and does not cause environmental harm or a nuisance, the following setback distances may apply.

Sensitive feature	**Setback distance for wastewater irrigation areas (metres)**			
	Prohibited	**Discretionary**	**Permitted**	**Comments**
Surface water including a watercourse carrying water for part or all of the year for most years, lake, or marine water.	<20	20 – 50	>50	The measurement shall be taken from the high-water mark or the top of an embankment or cliff if directly adjacent to a waterway.
Property boundaries	<2 (upslope and side slope)	2 – 3	>3	If the natural ground level, measured at the boundary, is at a lower elevation that the natural ground level where the irrigation is located, the boundary shall be deemed to be down slope (Note 1)
	<5 (down slope)	5 – 50	>50	
Buildings – sprinkler systems	<1 Where the plume of the sprinklers land **(See Note 2)**	1 – 5 Where the plume of the sprinklers land **(See Note 2)**	>5	
Buildings – drip systems	<0.5 **(See Note 2)**	0.5 – 5 **(See Note 2)**	>5	
Swimming pools - (Including surrounding paved areas)				
Level sites	<3	3 – 5	>5	
Down slope	<3	3 – 5	>5	
Upslope	<6	6 – 8	>8	

Note 1: The down slope is intended to represent the direction of the wastewater flow across or through the soil after being discharged in the irrigation area.

Note 2: Must be determined by a suitably qualified Geotech certifying the Wastewater design.

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