

**ENVIROTAS**

*your specialists in wastewater*

# ADVANCED SECONDARY WASTEWATER TREATMENT SYSTEMS

**EnviroTas partners** with wastewater engineers, councils, tradespeople, and property owners to deliver state-of-the-art recycled wastewater solutions for the long term.





## THE ENVIROTAS-AS WASTEWATER TREATMENT SYSTEM

The EnviroTas-AS is an Advanced Secondary Wastewater Treatment System. It is a state-of-the-art treatment plant that recycles all household waste effluent into clean, odourless water suitable for irrigating under lawns and onto the garden.

The system produces class-leading treated effluent quality thanks to a five-stage treatment process using anaerobic and aerobic bacteria to digest waste, and a nutrient reduction process that reduces total nitrogen and phosphorus outfalls.

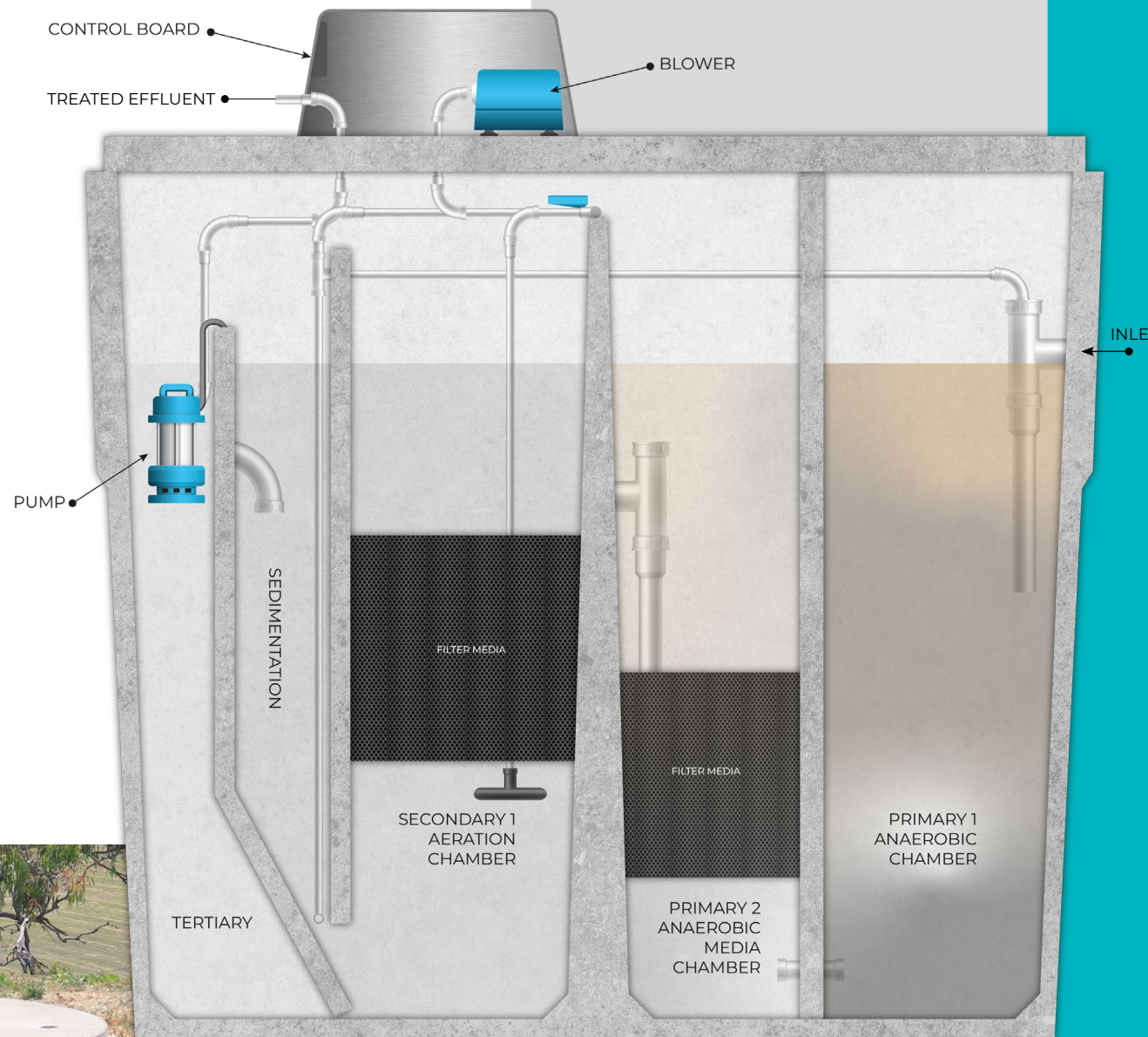
### WHY ENVIROTAS?

- > Unique, five-stage natural treatment process that duplicates nature at work, eliminating the need for any chemical dosing\*.
- > Heavy-duty precast concrete construction.
- > Single-tank treatment system.
- > Full-height internal baffle meaning no cross-contamination.
- > 1600L/day treatment capacity.
- > Large working capacity of 6400L, helping to minimise system shock loading which causes offensive odours.
- > Advanced secondary treatment with phosphate and nitrate reduction, resulting in clean, safe recycled water.
- > Accredited for six-monthly servicing where irrigation disposal is below ground, meaning ongoing servicing costs are some of the lowest on the market (most other systems available require quarterly servicing).
- > Proven, time-tested design.
- > 15-year warranty on concrete tank.

\*chlorine disinfection is required for surface irrigation methods and may also be used to prevent biofilm growth in irrigation pipework.

The EnviroTas-AS is fully manufactured right here in Tasmania

Accredited as a Secondary Treatment System for plumbing installations in Tasmania (Certificate DOC/24/7010)



## TREATMENT PROCESS

### PRIMARY TREATMENT

The first stage of treatment is to separate the solids from the liquids. The solids, mainly toilet wastes, remain in the first chamber where a digestion process takes place. Digestion is accelerated by the presence of anaerobic microorganisms which multiply rapidly under ideal conditions, ensuring that offensive faecal solids are turned into an inert waste. It is critical that the microbial action in the first tank is not hindered by the discharge of chemicals through household drainage fittings, e.g. chemical toilet cleaners and other anti-bacterial cleaning products.

### SECONDARY TREATMENT

The subsequent treatment stages are mainly concerned with the aeration of the liquid wastes. Once more, microbes present in these liquids are used to assist in the aeration process. The micro-organisms are called aerobes and will thrive and multiply in the presence of oxygen. It is therefore important that a constant air supply is always being maintained. The air is supplied from an air pump installed in a green plastic enclosure on the cover slab.

### SEDIMENTATION

Following aeration, the liquid wastes will settle under quiescent conditions. Any solid particles, which are suspended in the aerated effluent, will settle out and are returned automatically via a sludge return to the first chamber. The clarified water is ready for irrigation.

### TERTIARY TREATMENT

If your system distributes the outfall above ground, then chlorination is required by law (AS 1546.3:2017). Due to the quality of the treated effluent, sub surface irrigation does not require chlorination. However, if required, a mild dose is used for preventing biofilm growth in the irrigation system.

### NUTRIENT REDUCTION

The aerated, clarified, and disinfected water contains natural nutrients such as phosphates and nitrates. The EnviroTas-AS reduces the nutrient concentration by up to 75%, to a level that is both safe and beneficial for the environment.







## POLYETHYLENE SECONDARY TREATMENT SYSTEM

Whilst we highly recommend the precast concrete Envirotas-AS for its many unique features, sometimes site constraints cause the installation of a concrete system to be impractical or not cost-effective. EnviroTas can offer a Secondary Treatment System manufactured from lightweight polyethylene or FRP, providing a tough and functional solution in this type of application.

## COMMERCIAL SYSTEMS

The standard Envirotas-AS is accredited for residential homes, however, the design can be customised, using the same treatment process technology, to suit larger commercial applications.

EnviroTas has worked closely with many commercial partners to provide wastewater treatment solutions, including:

- > Schools
- > Accommodation Providers
- > Aquaculture Hatcheries
- > Wineries/Distilleries
- > Mines

Talk to us about your commercial treatment requirements today!

## MANUFACTURING

The Envirotas-AS is fully manufactured right here in Tasmania, ensuring we have complete control over each step of the construction process.

We pride ourselves on exceptional workmanship, and each system is hydraulically tested prior to dispatch.

We have systems available in stock in both the north and south of the state, ready for immediate delivery.



## SCHEDULED SERVICING

It is a requirement of system accreditation and a condition of your plumbing permit that your Treatment System is maintained and serviced regularly by an approved service provider. It is primarily the system owner's responsibility to establish a service agreement, however the team at EnviroTas can help and guide the owner through this process.

EnviroTas is an approved service provider with a team of highly qualified wastewater technicians, and we currently service over 1400 properties all across Tasmania.

We take full responsibility for every system we service, ensuring it is operating effectively and compliant with your local authority requirements. All servicing information is recorded on a service certificate which is provided to the system owner and lodged with the local council.

The Envirotas-AS is accredited for six-monthly servicing where irrigation disposal is below ground, meaning **ongoing servicing costs are some of the lowest on the market.** Most other systems available require quarterly servicing.

We pride ourselves on our after-hours service. Our phone is monitored 24/7, so if you do have a problem with your system, you can be assured your call will be answered and a friendly wastewater specialist will attend as soon as possible.



Scan to view our service agreements



The experienced team of Wastewater Specialists at EnviroTas can service and maintain any wastewater treatment system including:

- |             |           |
|-------------|-----------|
| EnviroTas   | FujiClean |
| Envirocycle | Biolytix  |
| Econocycle  | BioCycle  |
| Ozzi Kleen  | Septech   |
| Taylex      | and more  |

With the extensive experience of the team, you can be assured that your system will be serviced and maintained to its full potential.

Please do not hesitate to contact EnviroTas if you have any queries or would like to arrange a Service Agreement for a Wastewater Treatment System, we would love to hear from you!





# ENVIROTAS

your specialists in wastewater

## WHO WE ARE

We're a group of regular honest and hardworking people. Passionately local Tasmanians right here to help you out!

With extensive experience in all areas of wastewater treatment, you can be assured that the EnviroTas Team are truly **Your Specialists in Wastewater**.

We stand behind our product with the confidence that only comes from the knowledge that it is the best Wastewater Treatment System on the market. Our system works and when it comes to wastewater treatment no-one really wants to cut corners.

As the new owners of EnviroTas we're passionate about providing quality service with complete transparency, no hidden costs, and no unknown extras.

If you need a state-of-the-art Wastewater Treatment System or the assurance that your system is being serviced and maintained to the highest standard just give us a call - we'd love to hear from you!

03 6234 7782  
sales@envirotas.com.au  
www.envirotas.com.au  
6 Hale Street Derwent Park TAS

## A COMPLETE SOLUTION TO YOUR WASTEWATER NEEDS

When you choose EnviroTas, you're choosing a company that offers an end-to-end approach to your project, partnering with all relevant stakeholders on each step of the journey to deliver a complete solution to your wastewater needs.

### DESIGN

We work closely with wastewater designers and engineers to develop a solution to your specific site requirements.

### MANUFACTURE & SUPPLY

We manufacture your system at our facility here in Tasmania, and coordinate delivery and unloading of your system on site.

### INSTALLATION & SITE WORKS

Our experienced installation team will attend site to provide full excavation works, installation of your EnviroTas-AS and construction of your treated wastewater irrigation area.

### DOCUMENTATION & SIGN OFF

We provide all necessary drawings and documentation required for council sign-off, including commissioning of the system.

### SCHEDULED SERVICING

We establish an ongoing scheduled servicing agreement, ensuring your system is operating effectively and compliant with your local council requirements.

### BREAKDOWN & REPAIRS

In the event of system breakdown, our team are here 24/7 to respond and get things back operating how they should be.





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