

## Technical Specifications

### Working volumes (litres)

Septic tank	First chamber	2160
	Second chamber	840
Aeration tank	Aeration chamber	2090
	Settling chamber	810
Disposal pump chamber		170
Total working capacity		6070
Total holding capacity		8500
Total weight		320 kgs

### Certification

AS/NZS 1546.1:2008 On-site domestic wastewater treatment units—Septic tanks

AS/NZS 1547:2012 On-site domestic wastewater management

AS/NZS 1546.3:2008 On-site domestic wastewater treatment units—Aerated wastewater treatment systems

### KiwiTreat Ltd

Horrelville  
R D 5  
Rangiora

Phone: 03 312 5787

E-mail: [john@kiwitreat.co.nz](mailto:john@kiwitreat.co.nz)

[www.kiwitreat.co.nz](http://www.kiwitreat.co.nz)

## KiwiTreat

**“When only the  
best will do!”**

KiwiTreat Ltd

# Building your dream home in the country?

Wastewater treatment systems



**Contact us for help to  
maximise and protect  
your investment**



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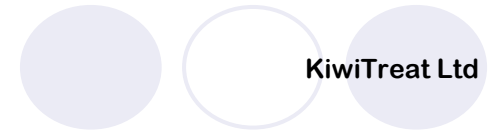
## Continually raising the bar....

**LIVING IN THE COUNTRY USED  
TO HAVE IT'S DRAWBACKS...**



Then

Now



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## The safer difference

### Quality of treated wastewater.

Naturally the outputs are within the industry standard requirements for aerated wastewater treatment systems.

And an additional bonus is the reduction of nitrate and phosphate levels.

### Flexibility

Should the house owner have an unconventional requirement, the system can simply be programmed accordingly. Usually at no additional cost.

Systems can be modified to meet the requirements of site specific areas.

### Warranty

The warranty reflects the efficiency, quality, and reliability of the system.

The basics are:

Tanks	15 years
All other components, including pumps;	2 years

(Contact KiwiTreat for full warranty details.)

### Backup

In isolated areas or where the environment needs full protection, we can supply systems with backup pumps installed.

The treatment process will never be compromised.

Consistent with our policy of product improvement, we reserve the right to alter specifications without notice.



## The powerful difference

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### Running costs

Electricity consumption for aeration is around 0.44 kW each day.

Around 10 years ago we moved forward from the air blower setup and have effectively **reduced** the power consumption by 77%

And routine maintenance was eliminated.

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### Retrofitting

If an existing septic tank is in good operating condition, an aeration tank and drip-line can be easily fitted. This gives an excellent opportunity to purchase a high quality system at a reduced overall cost.

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### Routine Maintenance

The only mechanical parts of the system are the pumps, and they do not require any regular maintenance. Routine maintenance is not required with this system.

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### Air injection

The bacteria in the aeration chamber are responsible for the accelerated treatment of the liquid to the stage where the liquid can be sent to the disposal area.

These bacteria require access to oxygen for their survival. The oxygen is released from the air that is mixed into the liquid. Our proprietary air injection system manages this process.

This system extracts the liquid from the aeration chamber, pressurizes it, infuses it with air, and returns it to the bottom of the tank.

All with a low energy requirement, no maintenance or noise issues, and a low operating cost.



## What's the difference?

From the very outset the KiwiTreat philosophy has been one of passionate innovation, of routinely questioning benchmarks in design, engineering and manufacturing quality, and persistently raising the bar higher.

Today the dream that spawned the KiwiTreat system has evolved into many forms.

A range of wastewater treatment systems that redefine excellence in engineering and design that has the same unwavering commitment to perfection.



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## See the difference

Cast your eyes over the lines of an installed KiwiTreat system and you will notice how well it is visually accepted into your environment.

The tank lids are set flush with the ground, and are clear of any additions such as pumps and controllers that would impair the visual appearance



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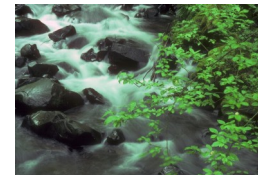


### Drip-line

Naturally a top of the line drip-line is used to complement this system. This drip-line has built in pressure compensated emitters to guarantee even distribution of the treated wastewater in your disposal area.

And it is non draining when not under pressure.

And it is protected by a large filter.



### Nitrate reduction

Nitrates in groundwater and water courses are recognized by the regulatory authorities as a major problem.

Our system is designed to reduce the amount of nitrates being made available to the disposal area.

Our environment must be protected.



### Running costs

The air injection system is normally set to run only a few hours a day.

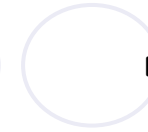
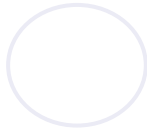
And only when needed.

This system ensures that running costs are kept to an absolute minimum.



### Home away

The system can be simply switched to a mode of reduced treatment if it is not going to be used over longer periods of time. This keeps the working bacteria at a level where they can quickly reach normal operating levels very quickly again on start up. Great for holiday homes.



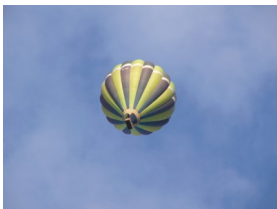
## Major Advantages



### Timed aeration

The processing stage receives just the right amount of air for correct treatment. This has the benefit of substantially reducing the power costs associated with the aeration process.

And maintenance is less of an issue, as the process is not having to work continuously.



### The air injection system

A venturi is used to infuse air into the liquid in the aeration tank.

There are no moving parts to break or wear out

And it is completely silent in operation

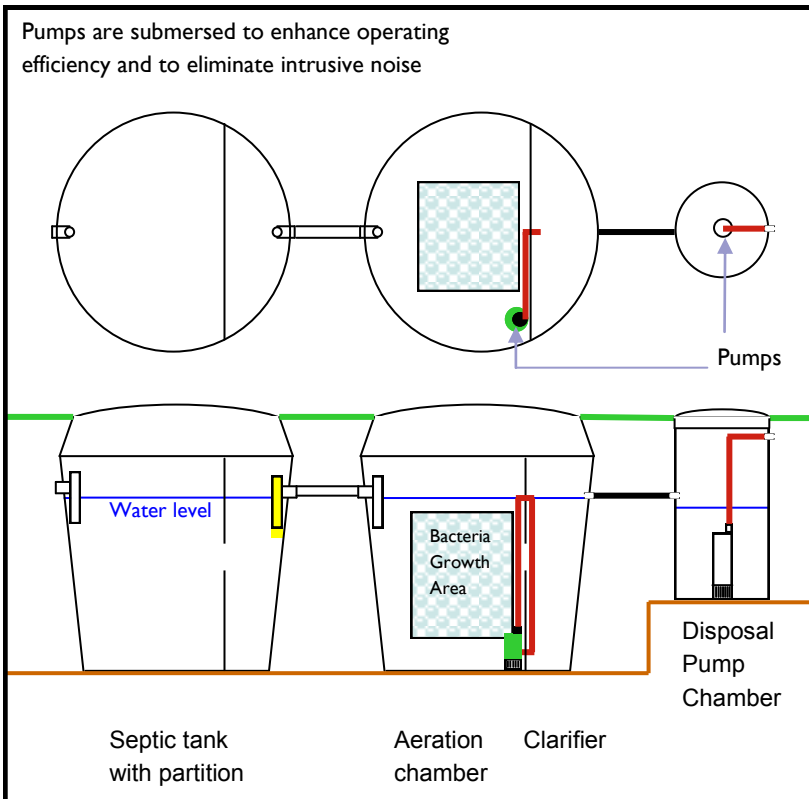


### Installation

The lightweight, yet strong tanks are a breeze to install. No need for heavy lifting equipment to be on site. Full installation instructions are supplied with the system. All materials and equipment are installed into the tanks before dispatch. The pumps are then removed to protect during transport.

## A typical installation



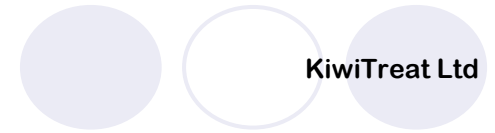


Main Dimensions:

Septic and aeration tanks

Base to ground level	1900mm
Diameter	2000mm

Weight of all tanks and fittings	320 kgs
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## Hear the difference

Listening to the birds chirping, or the wind blowing in the trees is easy!

The system is completely quiet in operation.

Thanks to the mechanical parts being submersed in the tanks.

