

# Oasis Clearwater Aerated Wastewater Treatment Systems

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Keep your part of the world green with the most widely used domestic wastewater system.



**Oasis Clearwater**

**ENVIRONMENTAL SYSTEMS**

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



The Oasis Clearwater Aerated Wastewater Treatment System range is the most extensively used and proven on the market today. These systems offer high performance, minimal running costs and are very unobtrusive once installed. Ideal for rural, residential and coastal areas where access to sewer mains are not possible. If you want an environmentally friendly method of keeping your part of the world green then an Oasis Clearwater Aerated Wastewater Treatment System is the perfect choice.

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### Here's Why:

The Oasis Clearwater Aerated Wastewater Treatment System incorporates five chambers and processes to efficiently and effectively process and treat your home wastewater into a clear and odourless liquid suitable for the irrigation of landscaped areas. The Oasis Clearwater Aerated Wastewater Treatment Systems range in size so as to provide the most optimal solution for your home and property.

#### **First Chamber - Primary Chamber (anaerobic and septic)**

Wastewater from the home is piped to this chamber. Here, anaerobic and other oxidising bacteria break down suspended solid material. This chamber also receives activated aerated sludge from the clarifying chamber that stimulates the bacteria and enhances the level of solids digested.

#### **Second Chamber - Secondary Primary Chamber (anaerobic and septic)**

Wastewater is able to flow freely from the first primary chamber into this chamber. This allows for mixing of the partially treated wastewater and prepares it for the processes that follow.

#### **Third Chamber - Aerobic Chamber (aeration and oxygenation)**

Semi-treated wastewater flows from the secondary primary chamber to the aeration chamber through the proprietary effluent filter. The oxygen for this chamber is supplied via a fine air diffuser powered by an air blower. The aeration chamber contains submerged 'Bio-block' media with a surface area of 80 squares metres. The enhanced aerobic bacterial action results in a high level of aerobic treatment.

#### **Fourth Chamber - Clarifying Chamber (settling)**

Treated wastewater passes from the aerobic chamber to the clarifying chamber. Any remaining particles of suspended solids settle to the bottom of the chamber allowing largely clean odourless wastewater to pass to the pumping chamber. The suspended solids that sink to the bottom of the chamber are drawn back, via a venturie, to the first primary chamber for further processing.

#### **Fifth Chamber - Pumping Chamber**

Treated wastewater flows into the pumping chamber where it is pumped out at pre-set rates for dose loading into disposal field often under gardens, landscaping, or other suitable areas.

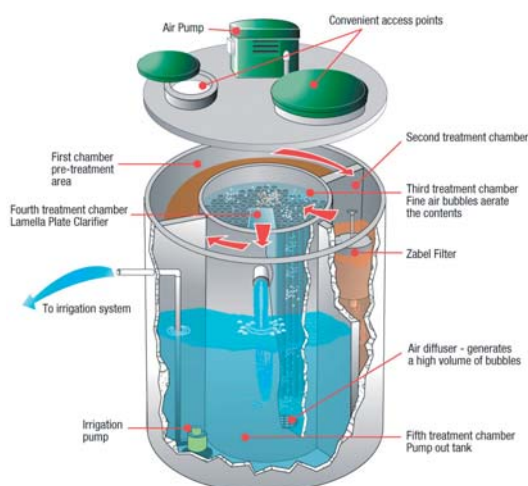
#### **Disposal Field**

Disposal fields vary in type and size depending on a range of factors. Disposal fields can be surface pinned, sub-surface (most common) or raised beds, your local council and environmental conditions will determine the method. The size of the disposal field is determined by the soil type of your property and the size of your home. Your local Oasis Clearwater Distributor will offer you the best advice on this aspect of your Wastewater Treatment System.



## Advantages & Features

- High Quality Concrete or Fibreglass Construction
- Independently tested and certified to exceed New Zealand Standards
- Quiet and economical to operate
- Total running cost per day range between \$0.50 and \$0.75 depending on system selection
- Minimal maintenance
- Visually unobtrusive
- Efficiency, Effectiveness and Reliability proven over time and throughout the country
- Nation-wide 24hour backup support and service



## System Range

| System capacity per day      | Treatment    | Suitability – With On-Site Tank Supply |                | Suitability – With Reticulated Or Bore-Water Supply |                |
|------------------------------|--------------|--|----------------|---|----------------|
|                              |              | Dwelling Size                          | No. Of Persons | Dwelling Size                                       | No. Of Persons |
| <b>Concrete</b>              |              |  |                |   |                |
| Oasis Clearwater Series 2000 | 2,000 litres | 0-4 Bedrooms                           | 0-10 Persons   | 0-3 Bedrooms  | 0-8 Persons    |
| Oasis Clearwater Series 2500 | 2,500 litres | 0-5 Bedrooms                           | 0-12 Persons   | 0-4 Bedrooms  | 0-10 Persons   |
| Oasis Clearwater Series 3000 | 3,000 litres | 0-6 Bedrooms                           | 0-14 Persons   | 0-5 Bedrooms  | 0-12 Persons   |
| <b>Fibreglass</b>            |              |  |                |   |                |
| Oasis Clearwater Series 1500 | 1,500 litres | 0-3 Bedrooms                           | 0-8 Persons    | 0-2 Bedrooms  | 0-6 Persons    |
| Oasis Clearwater Series 2000 | 2,000 litres | 0-4 Bedrooms                           | 0-10 Persons   | 0-3 Bedrooms  | 0-8 Persons    |
| Oasis Clearwater Series 3000 | 3,000 litres | 0-6 Bedrooms                           | 0-14 Persons   | 0-4 Bedrooms  | 0-10 Persons   |
| <b>Retrofit*</b>             |              |  |                |   |                |
| Oasis Clearwater Series 1500 | 1,500 litres | 0-3 Bedrooms                           | 0-8 Persons    | 0-2 Bedrooms  | 0-6 Persons    |

\*The RetroFit system works in conjunction with existing septic tanks where appropriate to convert septic systems to treatment systems.

\*The above table offer a general guide to system to dwelling suitability. An exact system specification and capacity calculation can be done very quickly by your Oasis Clearwater representative.

## Physical Parameters

- Height 2500mm
- Diameter 2500mm
- Weight 7.5 tonnes
- Control Panel Audio & Visual Alarm
- Supply Voltage 240 Volts
- Aerator 80 Watts
- Pump 600 Watts

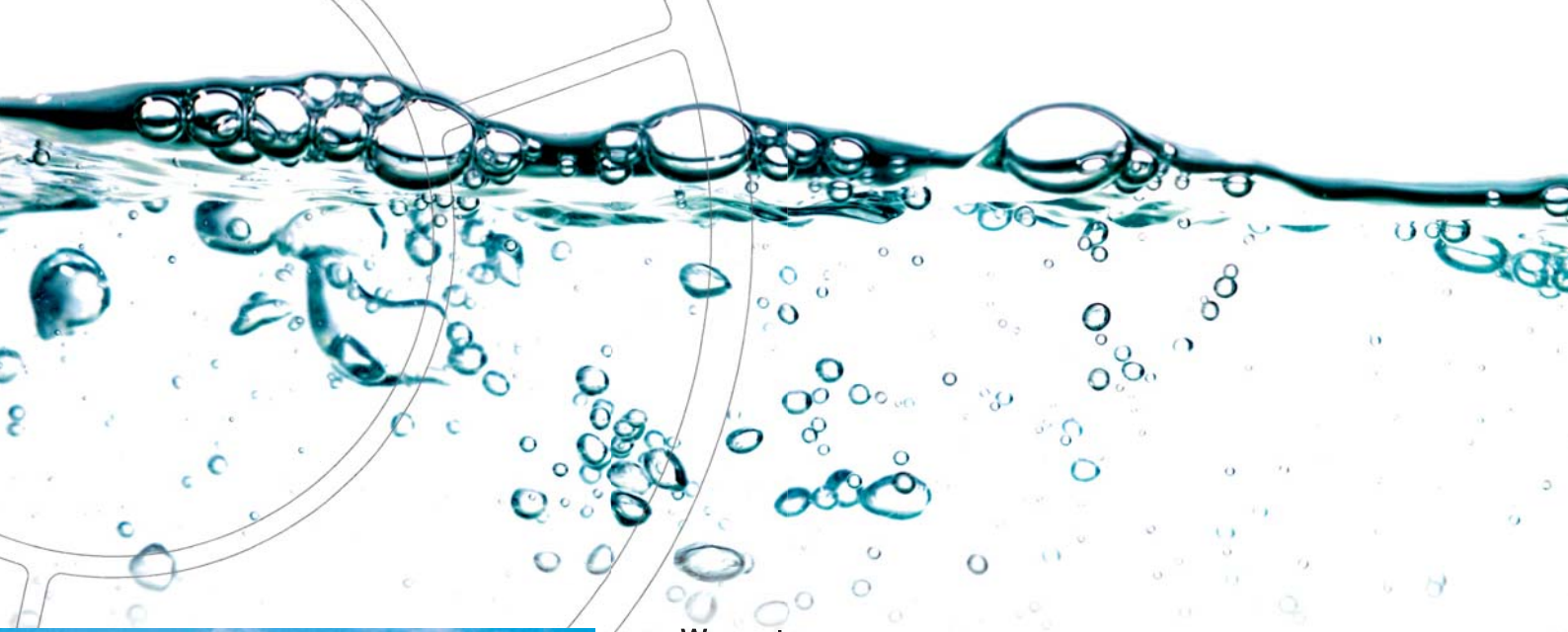
\*The Concrete Oasis Clearwater Series 3000 is a two tank system

## Installation

Oasis Clearwater Aerated Wastewater Treatment Systems are installed by fully trained and experienced Oasis Clearwater Distributors. An Oasis Clearwater Distributor will work with you from the initial site evaluation through all the compliance aspects before installation and final commissioning. Installation of the system and the disposal field typically takes a day and the system commissioning less than an hour. It is important that the home owner attends the system commissioning with the Oasis Clearwater Distributor.







### Warranty

Oasis Clearwater warrants each Aerated Wastewater Treatment System to be free from defects in material and workmanship for a period of two (2) years from the date of sale to the ultimate consumer. Oasis Clearwater warrants each Aerated Wastewater Treatment System concrete pre-cast tank for a period of ten (10) years from the date of sale to the ultimate consumer. The warranty on mechanical and electrical equipment is void if flooding occurs. Reasonable care in locating the system at installation and sensible landscaping reduces the risk of flooding.

The warranty on mechanical and electrical equipment is void if the system is not serviced at least every six (6) months by an Oasis Clearwater authorised Distributor and or Service Agent.

### Customer Care

An Oasis Clearwater Aerated Wastewater Treatment System will provide you with many years of reliable performance however as they are a 'living' system they do require care and maintenance. This care includes discipline in use by the homeowner in accordance with the guidelines set out in the Oasis Clearwater Aerated Wastewater Treatment System Owners Manual and servicing on a six monthly basis by an Oasis Clearwater authorised Distributor and or Service Agent.

### Certification

NZ TP58 Approval – 3rd Edition  
AUS/NZS 1547:2012 – On Site Waste Water  
AUS/NZS 1546 s 1:1998 – Septic Tank Manufacture

**For more information please contact your**



## Oasis Clearwater ENVIRONMENTAL SYSTEMS

### Manufacturer

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### Distributor

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