



**The New System  
on The Block!**

## Krystel Kleer

### Poly ADV5000

### Wastewater Treatment System Advanced Polymer

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## Advanced Secondary Treatment

**A Krystel Kleer Advanced Polymer system treats your wastewater to an Advanced Secondary level. It also reduces nutrients and phosphates. Advanced Polymer for up to 10 persons**



**EPA Victoria Approval CA 123/12**

### Primary Treatment

The first stage of treatment is to separate the solids from the liquids. The solids (mainly toilet wastes remain in the first compartment where a digestion process takes place. The digestion is accelerated by the presence of anaerobic micro-organisms that multiply rapidly under ideal conditions and ensure that the offensive faecal solids are turned into an inert waste.

### Advanced Secondary Treatment

#### **Aeration**

The subsequent treatment stages are mainly concerned with the aeration of the liquid wastes. Once again, 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, so it is important that a constant air supply is being maintained at all times. The air is supplied from an air pump attached to the systems.

#### **Clarification**

Following aeration, the liquid wastes are allowed to settle under quiescent conditions. Any solid particles suspended in the aerated effluent will settle out and are returned automatically to the first or second treatment stage. Although it looks reasonably clean, the clarified water may still contain pathogens which will have to be removed.

#### **Disinfection**

The bacteria are removed by the **chlorine disinfection** while in the chlorine chamber.

Chlorine disinfection will ensure the final effluent meets the criteria set by regulating bodies prior to irrigation to your land application/disposal area.

#### **Nutrient Removal**

The aerated, clarified and disinfected water contains natural nutrients such as phosphates and nitrates, which can pose a problem in certain conditions. The **Krystel Kleer** Polymer tank reduces the nutrient concentration, limiting potential damage to the surrounding landscape and waterways.



### Warranties

Structure	Warranty	Service life
Polymer Tank	10 years	20 years
Internal Baffles (polymer)	10 years	20 years
<b>Fittings</b>		
Pipework (PVC etc)	15 years	20 years
Fixing (stainless etc)	15 years	20 years
Filter media	15 years	20 years
<b>Electrical Components</b>		
Control Box	1 year	5 years
Alarm Panel	1 year	5 years
Irrigation Pump	1 year	5 years
Aeration Pump	1 year	5 years



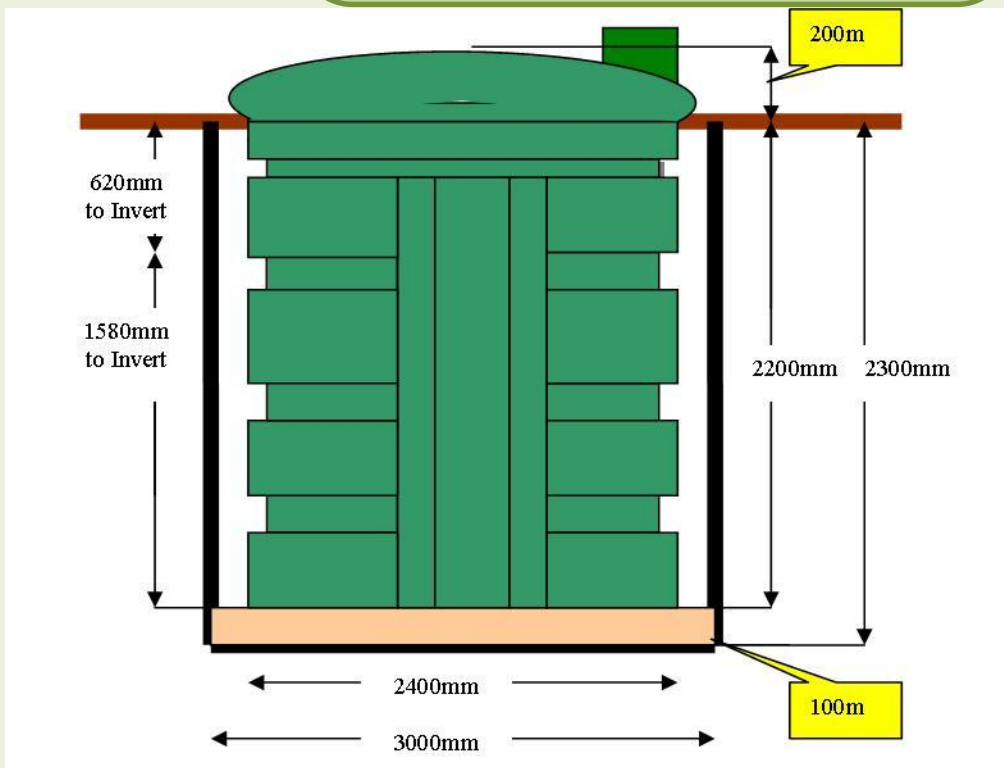
# Krystel Kleer Advanced Polymer system..... ...the NEW system on the Block!

## About Our Polymer Tank

- State-of-the-art rotomoulding manufacturing plant.
- Krystel Kleer Aerated Wastewater Treatment Plant Systems are manufactured with the highest grade polymer.
- AWTS Polymer construction gives clean solutions for all applications and environments.
- Full local and State government approvals.
- Purpose designed and built single tank system.
- Minimum machinery for freight and off-loading requirements.
- Ease of installation for difficult terrain sites.
- Clean, clear production of safe recycled wastewater.
- 20 year manufacturer's warranty on polymer construction.
- Manufacturer's warranties on pumps and blowers.
- Integral unique anchoring system for in-ground safety.
- Fully automatic operation with audible and visual alarm systems.
- All tanks manufactured to Australian Standards AS NZS 1546.3-2008
- Professional after sales service.
- Emergency breakdown service.

### HOW OUR SYSTEM COMPARES

TEST RESULTS	AUST. STANDARDS	KRYSTEL KLEER ADV5000
BOD5 oxygen demand	<10g/m <sup>3</sup>	3.94
TSS suspended solids	<10g/m <sup>3</sup>	4.69
Thermotolerant Coliforms Ecoli	<10g/m <sup>3</sup>	2
Dissolved Oxygen	<10g/m <sup>3</sup>	4.26
Turbidity Clarity	no requirement	3.9



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