

## Committed to a quality product.

Austin Bluewater Environmental Concepts Ltd is a proven leader with over 25 years hands-on experience designing and manufacturing wastewater treatment systems, in New Zealand, for New Zealand.

Quality, reliability and innovation are the pillars of our success, making us true pioneers and the leaders in on-site wastewater treatment in New Zealand.

All of our products are designed, manufactured and assembled at our own manufacturing facility to ensure consistent quality and durability.

### Technical Specifications

### Working Volumes

Primary pre-treatment chamber	2.03m <sup>3</sup>
Secondary pre-treatment chamber	2.03m <sup>3</sup>
Aeration chamber 1	.72m <sup>3</sup>
Aeration chamber 2	.70m <sup>3</sup>
Clarifying chamber	.58m <sup>3</sup>
Pump out chamber (gross)	1.03m <sup>3</sup>
Total holding tank capacity (gross)	8.13m <sup>3</sup>
Working tank volume	6.40m <sup>3</sup>
Reserve capacity	1.73m <sup>3</sup>

### System Dimensions

Overall length	3.0m
Overall width (incl. foot)	2.2m
Overall height (incl. standard turret & control box)	2.76m
Weight	8.2T
Invert level from bottom of tank	1.63m

### Construction

Manufactured in special high-grade 45mpa structural concrete and reinforced with 665 steel mesh.

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

### Certification

Manufactured to AS/NZS 1546 and 1547 standards. NZTP 58 approved.

### Comprehensive Protection Warranty

Austin Bluewater Wastewater Treatment Systems are warranted against defects in materials and workmanship under normal operating conditions and serviced by a comprehensive warranty and replacement program.

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# ABS2000 Advanced Wastewater Treatment System



# Engineering the future of wastewater treatment

Austin Bluewater are a proven leader with over 25 years hands-on experience designing and manufacturing waste water treatment and septic systems.

We recognise one of the most important decisions when planning the build of your new rural home is how you will deal with your household's wastewater.

## ABS2000 Advanced Wastewater Treatment System

Our team have engineered the ABS2000, a biologically advanced wastewater treatment system that doesn't just dispose of wastewater – it treats it, resulting in a liquid that can be put to use irrigating your land.

The system features multiple treatment and aeration chambers and filters to process and treat the sewage and wastewater from your home.

Unique to the ABS2000 are the additional diffusers in the aeration chambers resulting in higher quality effluent with lower nitrogen levels. In addition, a purpose-built clarifier assists with the final settling of sludge which is collected and returned to the primary chamber for further treatment.

The final stage in the process is the pump-out chamber which discharges highly treated effluent to the irrigation disposal field.

## How it works

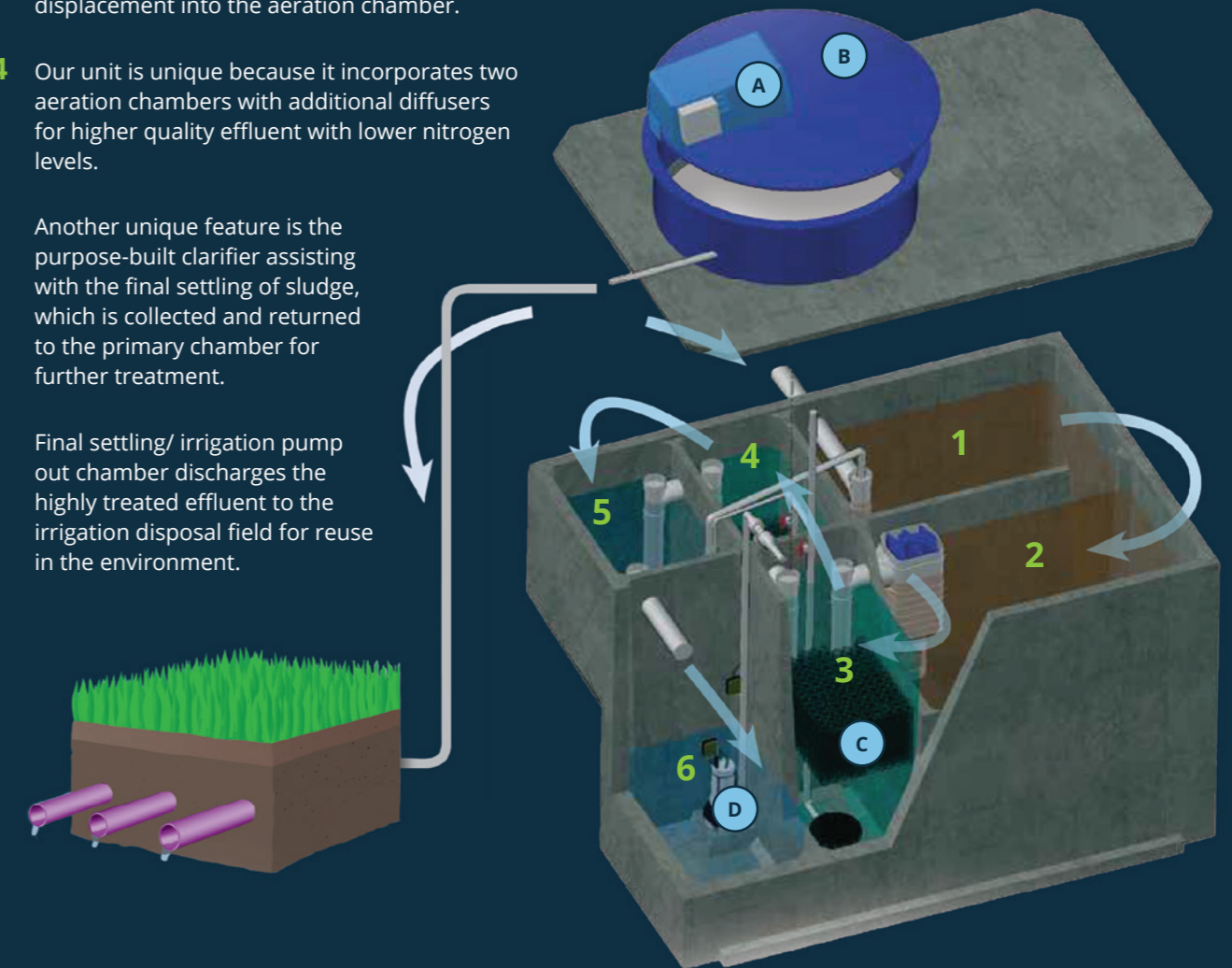
**Step 1** All sewage and wastewater from your home flows into this chamber then into chamber 2.

**Step 2** All waste is treated and dispersed in an odourless process before flowing by displacement into the aeration chamber.

**Step 3/4** Our unit is unique because it incorporates two aeration chambers with additional diffusers for higher quality effluent with lower nitrogen levels.

**Step 5** Another unique feature is the purpose-built clarifier assisting with the final settling of sludge, which is collected and returned to the primary chamber for further treatment.

**Step 6** Final settling/ irrigation pump out chamber discharges the highly treated effluent to the irrigation disposal field for reuse in the environment.



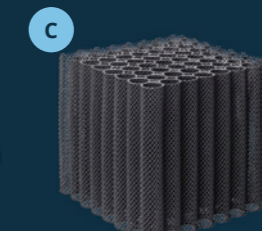
### Electrical Controls

Incorporates several features including alarm for malfunctioning blower unit, high water alarm, and automatic holiday mode (reduces blower running time).



### Blower

Powered by Nitto linear piston system, incorporating low power consumption and longer life than equivalent diaphragm blowers.



### Filter

Bio-Blok filter media is specifically designed to provide a large surface area for enhanced biological growth enabling efficient treatment of wastewater within the system.



### Pump

High quality, high pressure irrigation pump for dispersal to irrigation field.

It acts as a substrate for specialised bacteria which remove organic material from the waste stream.

