

Austin Bluewater Taylex World Series Lightweight Polyethylene Treatment System

Residential & Commercial
Applications



Engineering the future of wastewater treatment



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Why install a Taylex “World Series” System?

If you live in an unsewered area, you are required to install a system to treat all your wastewater. It is estimated that conventional septic and discharge systems are unstable (long term) for approximately two thirds of land area in New Zealand.

By installing a Taylex “World Series” you will be ensuring you treat all your household wastewater to the highest level possible.



“World Series” system is classified as advanced secondary treatment meaning it is approximately 50% cleaner than septic tank effluent (which is unable to be used for irrigation as it is a health hazard).



Advantages of the Taylex "World Series" over other models

The system is specifically designed and rotomoulded as a one piece tank using sandwiched closed cell polymer foam to make tanks light, strong and durable, with no sealants, glues or flimsy internal materials for walls or panels. Our system is designed to last the lifetime of your house.

Our one piece product has the distinct advantage over other lightweight polyethylene tanks of being one piece - two and three piece systems have the disadvantage of buried interconnecting pipework failing from backfills, subsidence and compaction over a period of time, saving both time and money on installation.

Quality purpose designed components

Taylex "World Series" uses only the highest quality materials to ensure long lasting products. Linear air blowers used in our system are designed to last twice the life of comparable diaphragm blowers and with less maintenance. Our controllers are designed for functionality and self diagnosis. An alarm code will be displayed if anything abnormal occurs within the system. A phone call to your local service technician may be all that is required to rectify the situation saving you time and money.

The aerator operation timing is programmable at the control panel and run times can be varied to suit the number of people in the home therefore reducing electricity usage.

We only use products that will withstand the harsh environments they are working in. All electrical products, aerator, irrigation pump and controller use 3-pin plugs in components for ease of replacement.

The Taylex "World Series" (TWS)

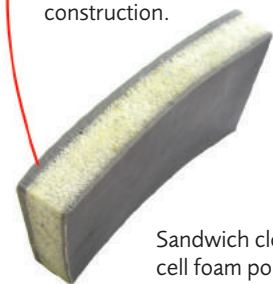
The Taylex "World Series" System is a natural organic system which employs nature's own resources to reduce wastewater to a clear, odourless liquid in 24 hours.

It treats all household liquid wastewater turning it into reusable water suitable for irrigation.

Plastic Tanks



Sectional view of plastic tank internal showing one-piece construction.



Sandwich closed-cell foam polymer - lightweight and strongest of all plastic tanks.

- One piece rotomoulded system
- No joins or glued in compartments
- All partitions extended to top of tank
- No internal leakage resulting in poor quality effluent

Taylex World Series "TWS" lightweight advanced secondary system one piece polyethylene tank

The Taylex World Series "TWS" is the world's first multi-chambered monolithic plastic tank built light and strong using a sandwiched, closed cell foam polymer manufacturing method, including no welded seams.

When is a poly tank required?

The low weight of a poly tank makes it ideal

- for difficult access sites - eg. steep or
- if cranes are not easily available

Your local Distributor will recommend the most suitable tank for your site.

The 5 Step Process

Step 1: All wastewater from the home flows by gravity into the primary pre-treatment chamber of the TWS, and then into the secondary pre-treatment chamber by way of a mid-water take off. Solids are allowed to settle to the bottom of these chambers and a crust forms on the top. This naturally occurring crust stops odour from escaping from these chambers.

Anaerobic (no oxygen) bacteria establish themselves in these chambers and partially digest the organic matter. Any untreatable and potentially harmful solids are retained within these chambers. The mid-water liquor between the bottom sludge based layer and the surface crust then flows by displacement into the aeration chamber.

Step 2: Air is introduced into the aeration chamber by way of a silent Aerator with an air diffuser located at the bottom of the chamber. Aerobic (oxygen loving) bacteria proliferate and digest most of the remaining organic material. Fixed biomedica assist the retention and growth of the biomass.

Step 3: The liquid then flows into the clarification chamber for final settling. Sludge is removed from this chamber via an air sludge lift and is returned to the primary pre-treatment chamber for further treatment.

Step 4: The treated effluent passes through a plate filter to settle out any floating solids. The treated effluent is stored in the irrigation chamber until sufficient water activates the automatic submersible Davey irrigation pump via a float switch.

Step 5: The automatic irrigation pump discharges the treated effluent to the irrigation field for reuse in the environment.

Christchurch Head Office

889 Jones Road, Rolleston, Christchurch
PO Box 16865, Hornby, Christchurch
Ph 03 595 2812 **Fax** 03 595 2814
0800 287 846 0800 austin
Email office@austinbluewater.co.nz
www.austinbluewater.co.nz



10 Year Warranty

Every TWS System is covered by a full manufacturers warranty.

There is a 10 year warranty on the plastic single piece 5 chambered tank and a 2 year* warranty on all electrical and mechanical components including the irrigation pump. (*12 months standard warranty and a further 12 months extended warranty when you purchase your second year service contract with an approved service provider).

Warranty applies from the date of commissioning or 90 days from the date of installation (whichever is sooner).

Technical Specifications

Height	2500mm
Inlet Invert (from base)	1770mm
Tank Footprint	2400mm x 2530mm
Max Dry Weight	450kg <small>(Allow 600kg as all tanks are water tested)</small>
Max. Hydraulic Loading	2,000L/day 10 person
Operating Capacity	6,066L
Total Tank Capacity	7,100L

Tank construction - manufactured in polyethylene plastic.

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

Certification

Manufactured to AUS/NZS 1546-1 and 1547 standards.

Authorised local distributor:

