



Taylex Tanks

Wastewater & Rainwater Specialists Since 1969

Home Sewage Treatment Solutions

Clear, odourless,
recycled water
for irrigation



www.taylex.com.au

About Taylex



Taylex was founded in 1969 and was the first company to manufacture Aerobic Wastewater Treatment Systems (AWTS) in Australia. Taylex continues to lead the field in both precast concrete and rotational moulding manufacturing, design & installation of Rainwater Tanks and Home Sewage Treatment Plants (HSTP).

Taylex has a National Distribution Network which is supported by factory trained licensed distributors. Our Distributors can supply, install, service and maintain our range of both concrete and plastic products from Tasmania to Darwin, Perth to Brisbane. We manufacture all our own concrete and plastic products.

Taylex is an ISO 9001 Quality Assured Company. Our range of products carries all relevant State Government Approvals throughout Australia.

Project Management for Your Installation & Commissioning

Your Taylex consultant will project manage your installation with your builder and plumber. They will advise on, and discuss matters with you that may affect the final outcome for you (eg sub-surface irrigation and positioning of tanks; possible excavation problems like rock and high water tables etc.). **This ensures a trouble-free install with maximum aesthetic value and minimal environmental impact.** After the install, your builder will go about his job until your house is finished. *Please make sure your builder arranges a commissioning date for your system at least 2 weeks prior to your move-in date.

Servicing

Home Sewage Treatment Plants are required by law to be serviced on a regular basis (normally quarterly unless otherwise stated). Your Local Council will enforce these laws. Systems may only be serviced by registered licensed wastewater service personnel.

As part of your installation, your new system will be serviced by our team of friendly servicemen for the first 12 months. After the first year you can renew your service contract with us on a yearly basis.

Please note: All aerated treatment systems need to be de-sludged depending on usage. On average most Taylex systems need to be pumped out between 5 to 10 years. Any claims by other companies that their tanks never have to be de-sludged are incorrect. The resultant sludge that households produce does not just miraculously vanish into thin air.

Septic Change-Overs

If you have purchased a pre-owned home or you are renovating you may wish to change an existing septic system to a Home Sewage Treatment Plant. Once your Site & Soil Report has been completed, and you are aware which system is to replace your old septic, your Taylex consultant will help you organise all the relevant trades to work with us to replace your old tank with a minimum impact on your daily routine.

15 Year Warranty

Every Taylex concrete system is covered by a full manufacturer's warranty. There is a 15 year warranty on the pre-cast concrete tank and a 2 year* warranty on all electrical and mechanical components including the irrigation pump (*12 month standard warranty and a further 12 months extended warranty when you purchase your 2nd year service contract with a Taylex Approved Service Provider). Warranties apply from the date of commissioning.

Research & Development

Taylex are constantly developing new ways to help you and the environment - A new Plastic Tank System is due for release in 2010. Taylex is also developing a solar cell to operate the Home Sewage Treatment Plant range.



We install
over 2,000 systems
per year



The Treatment Process - *A living thing*



All Wastewater/Sewage Treatment Systems work on a biological process

A Treatment Plant is a living organism. There are trillions of living bacteria that make the system work properly - the same process as a large city sewage treatment plant! Your Local City Council has laws in place that prevent the dumping of certain chemicals and pollutants into their drains. Large amounts of chemicals will "kill" off their living biological process creating havoc in their treatment plants. A city plant is a large scale operation and they will have the excess treatment capacity to overcome most daily problems.

Your Home Sewage Treatment Plant is a miniature version of the City Plant. Because it is smaller and only designed to treat the amount of waste you produce from your home it will be more noticeable to you if you accidentally "kill" off your system's living bacteria that make the biological treatment process work.

When using your Taylex system we ask that you respect the system and be mindful of the need to provide a safe and happy home for your colony of bacteria to live and work in. If a problem does occur, our servicemen are trained to ascertain the cause and find the remedy.



Getting Started

What do you need to do next



- 1** Ask your Taylex Consultant to organise a Site & Soil Test (for installation of a Wastewater Treatment System) so that you are aware of which type of system your Local Council will allow to be placed on your property.
- 2** You then need to decide whether to stay with the minimum requirement or upgrade the system to give you a better grade of recycled water. The graph on page 4 can help you understand the benefits of each system and our friendly staff will always be happy to help you with this decision.
- 3** We can then quote on the system and make a Site Inspection to ensure your installation will run smoothly. Please be aware that in some cases it is best to install your tank prior to building your home to make sure that access is available. We will liaise with your builder to work out the best possible way to install your tank.

Please note:

Make sure you inform your Taylex Consultant, builder or plumber of any future sheds, pools or driveways. The positioning of these may impact on the placement of your irrigation area and impede commissioning of your System prior to you moving in to your new home.

What is the TAYLEX Difference?



Taylex Tanks are purpose built

Through the years we have spent a great deal of time designing and testing treatment systems that work. After a system has been proven to work, we then design a mould for a purpose built tank to house the system. We do not compromise the working environment of a system by adapting an existing mould to house a new system. We believe we make the best concrete vessel for a treatment system in Australia.

Taylex Tanks Are Made As A One Piece Moulded Unit

Eliminating any leakage caused by movement of internal walls - a common problem with other tanks that have mortar or silicone joints internally. This would allow contamination between compartments, hindering the treatment process and allowing untreated water to be irrigated into your garden.

Monitoring and Alarms

Taylex Systems all have two alarms systems by law (1 x Audible & 1 x Visual). This will alert you to a problem and prompt you to call in a Service Technician or consult your Home Owner's Manual (provided in the control box on your tank, our website or available by calling our service department). Once you are aware of the problem you can mute the alarm while you wait for the serviceman. It cannot be forgotten as it will reactivate every 24 hours until a remedy has been found.

Taylex have chosen not to have the monitoring system placed inside your house. By placing the alarm at the tank's control panel, it will be noticeable, but not an intrusion in your daily life. This also allows our servicemen to attend your system without the need for you to be at home.

Taylex Tanks Never Require A Rebuild

Taylex Tanks will last as long as your house with only normal maintenance. No Taylex Home Sewage Treatment System has ever needed to be rebuilt or replaced!

Taylex Tanks Now Have 2 Inlet Levels

Waste is gravity fed from your house to your treatment tank. The choice of two inlet levels may eliminate the need to install risers to accommodate the depth a tank needs to be buried for adequate fall. A cost saving for the home owner.

Taylex Tanks Are Large – Up to 9300Lt Total Capacity (ABS & DMS)

The time the effluent is able to process in your tank is the secret to producing quality effluent. Our tanks can accommodate more water so your effluent is being consistently treated longer – even on high usage days. This accommodates for growth of your family and when visitors arrive.

Power Usage

Power is becoming a real concern for everyone and we are aware that our customers require more power saving opportunities. The Advanced Blower System and Domestic Membrane System turn the air blower on and off as required - unlike other units that run 24 hours a day. In the ABS alone, tests have proven that it's air blower costs 18.66c per day to run, plus the running of the irrigation pump - which will depend on your water usage in the house. Most households will pump out 3-5 times a day.

Taylex Most Popular System (ABS)

The Advanced Blower System is suited to approximately 90% of all domestic installations throughout Australia. Taylex have discontinued sales of our previously most popular system "The Compact" (a secondary system). We now supply the "ABS", (an advanced secondary system), with the view that power saving, low noise and high grade recycled water will better serve our growing family of Taylex Wastewater Treatment users.

Taylex Have The Ultimate Environmental Solution (DMS)

Our Domestic Membrane System (DMS) is used in Environmentally Sensitive Areas. This system allows reduced set-back distances for small blocks or blocks with natural watercourses &/or neighbours in close proximity. This system has 2 forms of disinfection (membrane filtration and UV light) neither of which have any chemical residue. The Domestic Membrane System produces the cleanest water from a domestic treatment system in Australia today. Please check the independantly certified results in this brochure.



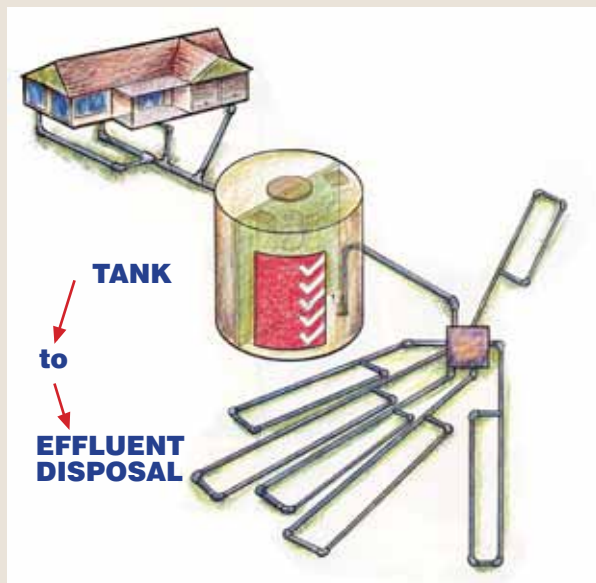
Taylex Maxi "All Purpose Septic Tank" (Primary)

Step 1: All waste from the home enters the primary settling chambers of the Taylex System with liquid then flowing into the secondary settling chambers. The time that waste spends in these five anaerobic* chambers allow bacterial action to condition the water before it flows into the absorption trenches.

Tank Construction – All Concrete

Height	2300mm
Inlet Invert (from Base)	1830mm
Tank Diameter	2440mm
Maximum Dry Weight	6.1 tonnes

There are several different configurations available – please speak to your Taylex Consultant.



Taylex Deluxe (Secondary)

For Large Homes

Step 1: All waste from the home enters the primary pre-treatment chamber of the Taylex System with liquid then flowing into the secondary chamber. The time that waste spends in both these anaerobic* chambers allows bacterial action to condition it before it flows into the aeration chamber.

Step 2: The aeration chamber is designed to retain & mix the liquid while aerobic** bacteria digest the organic material. The aerator introduces oxygen by drawing fresh air through the vent and injecting it into the chamber while circulating the entire contents. The aerobic** bacteria multiply rapidly in this oxygen enriched environment and are thoroughly mixed with the pre-treated liquid to ensure complete oxidation of all organic material.

Step 3: The liquid then flows into the clarification chamber for settlement where the remaining organics are further digested by bacteria living on specially designed bio-mass sheets.

Step 4: Pre-treated, aerated and settled, the liquid then passes through a Taylex filter prior to chlorination. The filtered liquid passes through a chlorinator which ensures the disinfection of the reclaimed effluent.

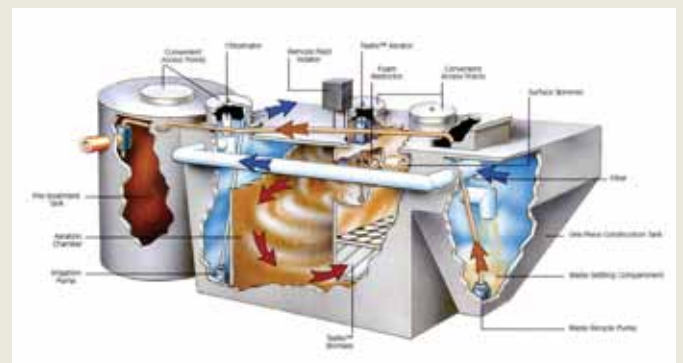
Then your reclaimed effluent is returned to the environment via spray or underground irrigation by a silent pump.

1st Tank Construction – All Concrete (round)

Height	2140mm
Inlet Invert (from Base)	1700mm
Tank Diameter	1930mm
Maximum Dry Weight	4 tonnes

2nd Tank Construction – All Concrete (oblong)

Height	1800mm
Inlet Invert (from Base)	1400mm
Length x Width	3200mm x 1700mm
Maximum Dry Weight	5.2 tonnes



Taylex Systems Maxi, ABS & DMS

- One Tank
- One Connection
- One Hole

* Anaerobic - Meaning: without air (Oxygen). The bacteria in an anaerobic environment do not require oxygen to survive and flourish.

** Aerobic - Meaning: with air (Oxygen). The bacteria in an aerobic environment do require air to survive. The system introduces extra oxygen into an aerobic chamber to allow these "good" bacteria to multiply and flourish.

Taylex Advanced Blower System (Advanced Secondary) *Our Most Popular Model*

No Sandfilter Required

Step 1: As per Deluxe

Step 2: The new generation ABS uses an air blower to introduce oxygen into the aeration chamber. The aerobic** bacteria multiply rapidly in this oxygen enriched environment and are thoroughly mixed with the pre-treated liquid to ensure complete digestion of organic material. The blower is set to turn on and off as needed to accommodate the flow of each individual treatment system.

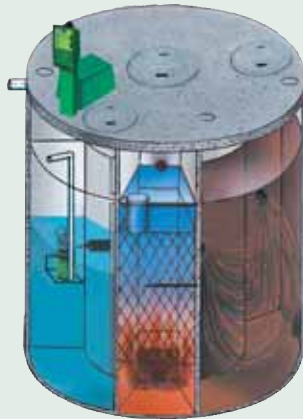
Step 3: The liquid then flows into the clarification chamber for settlement where the remaining organics are further digested by bacteria living on specially designed bio-mass sheets.

Step 4: Pre-treated, aerated and settled, the liquid then passes through a Taylex outlet filter prior to chlorination. The filtered liquid passes through a chlorinator which ensures the disinfection of the reclaimed effluent.

Then your reclaimed effluent is returned to the environment via spray or underground irrigation by a silent pump.

Tank Construction – All Concrete

Height	2300mm
Inlet Invert (from Base)	1830mm or 1530mm
Tank Diameter	2450mm
Maximum Dry Weight	6.25 tonnes



Taylex Domestic Membrane System (Advanced Secondary with Nutrient Removal)

For Environmentally Sensitive Sites

Step 1: As per ABS

Step 2: In the aeration chamber an air blower introduces oxygen into the liquid creating an aerobic** process where bacteria grow and digest solid waste. At intervals governed by the water flow the liquid will be pumped through the ultra-filtration membranes to the irrigation chamber.

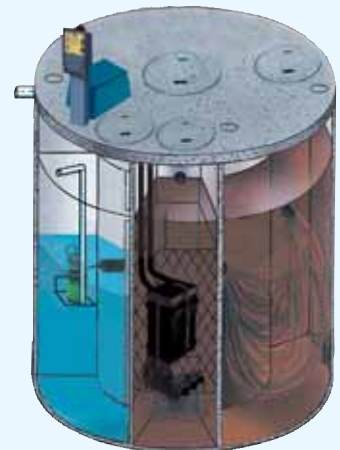
Step 3: Biological nutrient removal is achieved by recirculating liquid between the aerobic** membrane chamber and a de-nitrification chamber. Phosphorus removal is achieved withholding all sludge.

Step 4: The liquid that has entered the irrigation chamber is constantly recycled through a continuous disinfection process using ultra-violet light and then recycled back to the environment via spray or underground irrigation. The ultra-filtration membrane is the primary disinfection process.

This is the most advanced treatment system on the Australian market today.

Tank Construction – All Concrete

Height	2300mm
Inlet Invert (from Base)	1830mm or 1530mm
Tank Diameter	2450mm
Maximum Dry Weight	6.25 tonnes



Extra facts about our Domestic Membrane System:

- The ultra-filtration membrane is a physical barrier separating solid particles from liquid. The defined pore diameter of the membrane is only thirty-five millionths of a millimetre (0.000035mm). The ultra-filtrating membrane is an absolute barrier for suspended solids, bacteria & large virus. The smallest molecules, metallic ions and dissolvable salts essential for life can pass the ultra-filtration membranes unhindered.
- We use flat sheet membranes derived from organic polymers that are very effective, these are combined with the unique filter module construction which prevents clogging due to hairs, fibres or other coarse substances.
- Nutrient Removal is important to the environment as excess nutrients will alter soil characteristics unfavourably and cause algal blooms in water. The Taylex DMS reduces nitrogen & phosphorus level to well below the Australian Standards ensuring the safety of your family and minimises pollution of our waterways and environment.



Our Commitment - Service, Reliability & Quality

Professional after sales service together with emergency breakdown response is provided by our qualified service technicians using our modern fleet of service vehicles. Our service technicians are qualified and licensed by the relevant state government authorities ie. Plumbers and Drainers Licensing Board and Wastewater Service Persons Course to ensure that they offer the highest quality in service.

Superior treatment systems with reliable performance...
Working for you and the environment



Call Your Authorised Distributor



1300 660 225 Australia Wide

★ Northern
Manufacturing Division
ABN 35 113 453 091

Sales Office
Phone: (07) 3441 5200
Fax: (07) 3287 4199
Email: salesnorth@taylex.com.au

★ Southern
Manufacturing Division
ABN 67 005 020 333

Sales Office
Phone: (03) 5799 0650
Fax: (03) 5799 0651
Email: salessouth@taylex.com.au



The Standards Mark refers to the concrete vessels manufactured by Taylex.

It does not cover the other items of equipment contained in the system.



www.taylex.com.au

Can we also help with your rainwater tank requirements?