Environmental Septic Tank Systems
Septic Tanks/Pump Stations/AirTech™
Whether you are storing, transporting or distributing water or wastewater, RX Plastics has the solution for you, with manufacturing facilities New Zealand wide and selections of strong supporting brands, RX Plastics can assist, whatever your requirements.

We’ve got what you need
RX Plastics has a wide range of products to support your water and wastewater distribution.

Tanks
RX has tanks from 135 litre – 33,000 litre. Whatever your requirements RX has it.

Farm Troughs
RX has troughs from 12 litre – 1200 litre to suit your animals water requirements.

Polyethylene Pipe (Polypipe) and PVC Pipe
RX has a range from 15mm – 450mm to suit many tanks. Pipe is rated 5bar (72 psi) – 25bar (375psi).

Environmental Concerns
Discharge of sewage and wastewater into our environment has serious impact on soil structures and water aquifers. With local and regional authorities requiring you, a rural resident with no sewage reticulation, to manage, treat and dispose of your own sewage and wastewater within the boundaries of your property, this issue may become a serious concern for you and the management of your property.

To meet the range of effluent quality standards that my vary between authorities you need a septic tank or sewage treatment system designed to minimise these adverse effects.

Lightweight
The RX Septic Tanks, Pump Chambers and AirTech™ are manufactured from the industry’s strongest grade of polyethylene, giving a long life and performance after installation. This diverse product range can be used in both new and existing applications and be installed to existing tanks to increase treatment capacity.

Strength
In developing the new tank the RX Plastics Design Engineering team have proven that the sphere tank is the strongest configuration for inground use. Extensive Finite Element Analysis (FEA) testing results have proven this and we believe it to be one of the strongest polyethylene tanks in the market.

Warranty
RX Septic Tanks are covered by the RX Plastics extended warranty and covers all polyethylene rotomoulded tanks to be free of defects in workmanship and materials for a period of 15 years.

All electrical componentry is covered by a two year warranty only. The manufacturers own warranty apply to all other componentry used in RX Septic Tanks.

RX Plastics Ltd hold no responsibility for the installation including the design and care of the installation, this is between the independent installers/service agent and the customer.

Transportation and Installation
All RX Septic Tanks are delivered ex-factory on purpose-made pallets for easy storage and forklift manoeuvrability. For ease of installation, systems delivered to site are lifted from the pallet and positioned in the prepared excavation ready for backfilling. Required installation procedure is as per instructions provided with all systems.

To order freephone 0800 661 100 or visit www.rxplastics.co.nz
Pump Chambers

Pump Chamber
The Pump Chambers are made from polyethylene which is high strength and are designed and manufactured in New Zealand. The inground waste water chamber is suitable for all types of ground conditions and is rated to 2.1 sg soil loading (wet clay).

The chambers are certified to both AS/NZS 4766 - polyethylene storage tanks for wastewater and chemicals and AS/NZS 1546.1 - on site domestic wastewater treatment facilities.

The geometric shape allows for maximum strength under compression while also offering the advantage of anti-flotation for wet areas.

Packages will be internally plumbed up to the pump and outlet. They also come with an electrical junction box which will connect the power cable for the pump and high water alarm (see specifications as per website).

Connection for pipes
The collection tank is supplied and installed with an external 100mm PVC waste pipe connection for a common waste pipe gravity falling into the chamber from the dwelling.

The selected submersible is piped in 50mm MD discharge pipe that has a mac union for easy removal and passes through the tank wall for extra support. A 40mm isolating and non-return valve is supplied and fitted inside the chamber.

RXST PC 10.120GA – Single Pump Station
Features include:-
• 1 grinder pump
• IP65 enclosure
• Hi water alarm and isolating switch
• LCD light.

RXST PC 33.2x.120GA – Twin Pump Station
Features include:-
• 2 grinder pumps
• System status via pilot light and display including pump run and fault indication lights
• IP65 enclosure
• Dual duty/duty standby operation
• Adjustable start and stop delays
• Automatic rotation of lead / duty pump to equalise hours run per pump
• Telemetry outputs for pump start / stop, system faults, pump status etc (see full list)
• Selectable options for additional pump protection and external communications. RS485 SDCADA interface
• Low level and high level protections with selectable shutdown options
• Random starts selection to eliminate scum build-up within the supply tanks.

The RX inground 1000, 1500, and 3300 stations/chambers have been specially designed for domestic applications where a property is below the conventional council sewage line. These tanks do have a 24 hour storage capacity.

Other pump packages can be priced on request.

Pump Chambers are designed to be installed underground.
What is AirTech™

The AirTech™ system is an efficient sewage treatment plant that safely and effectively processes all household sewage and wastewater and recycles it as clear, odourless nutrient enriched water to irrigate landscape, shelterbelt, coppice wood lots or existing planted areas. For the environmentally minded this means that the sewage and wastewater is treated on the property where it is produced and then recycled for reuse with little or no environmental impact on the land.

Why choose AirTech™?

The AirTech™ system efficiently treats all your household sewage and wastewater, recycles it, allowing you to irrigate your property. The AirTech™ system is suitable for even the most ecologically sensitive areas.

Environmental benefits

• Recycling wastewater into nutrient enriched water
• Little or no environmental impact on the land
• Ability to reuse water for irrigating surrounding land
• OSET trial results (low nitrate levels)
• High degree of breakdown achieved by the system.

Domestic benefits

• No odour
• Low running costs
• Ability to irrigate landscaped gardens
• More flexible in the ground than concrete
• Easy to use alarm system for self monitoring.

Options

• AirTech™ 7000
  Ideal for houses and batches up to 4 bedrooms
• AirTech™ 9000
  Ideal for houses up to 8 bedrooms
• AirTech™ 9000 NR (Nitrogen Removal)
  Ideal for house of up to 8 bedrooms
• Suitable for ecologically sensitive areas including lake front properties and homes close to waterways
• All AirTech™ tanks are installed by RX Plastics approved and certified installers.
Septic Tank

A polyethylene, high strength, NZ designed and manufactured, inground septic tank for all types of ground conditions and rated to 2.1 sg soil loading (wet clay).

The septic tanks are certified to both AS/NZS 4766 – polyethylene storage tanks for wastewater and chemicals and AS/NZS 1546.1 – on site domestic wastewater treatment facilities.

The geometric shape allows for maximum strength under compression while also offering the advantage of anti-flotation for wet areas.

Packages will be internally plumbed up to the outlet.

Connection for pipes

The collection tank is supplied and installed with an external 100mm PVC waste pipe connection for a common waste pipe gravity falling into the chamber from the dwelling.

Single and 2 Stage Septic Tanks

Features include:-
- Vented
- Stainless Steel Filter
- 100mm inlet and outlet.

2 Stage Septic Tanks

Features include:-
- 2 grinder pumps
- System status via Pilot Light & display including pump run and fault indication lights
- IP65 enclosure
- Dual duty/duty standby operation
- Adjustable start and stop delays
- Automatic rotation of lead / duty pump to equalise hours run per pump
- Telemetry outputs for pump start / stop, system faults, pump status etc (See full list)
- Selectable options for additional pump protection and external communications. RS485 SDCADA interface
- Low level and high level protections with selectable shutdown options
- Random starts selection to eliminate scum build-up within the supply tanks.

Septic Tanks

3300 Litre
Single Stage Filtered Septic Tank
RXST 33
200kgs

4300 Litre
Single Stage Filtered Septic Tank & Pump Chamber
RXST 33 10
300kgs

4800 Litre
2 Single Stage Filtered Septic Tank
RXST 33 15
325kgs

5500 Litre
2 Stage Filtered Septic Tank & Pump Chamber
RXST 33 12 10
375kgs

Pump Systems can be fitted by RX Plastics on request.

Drainage pump code is: RXST.DP15SET
High water alarm (visual) can be fitted by RX Plastics on request.
High water alarm code is: RXST.HALARMSET
Compliance and certification

The RX Septic Tank range meets the objectives of:

- Australia New Zealand joint standard 1546 1:1998
- Australia New Zealand joint standard 1547 2012
- ARC Environment TP 58 Second Edition
- Design and Testing verified by registered engineers and consultants
- Process analysis undertaken at Lincoln University
- Member on-site Wastewater Special Interest Group (OSW-SIG)
- Local authority approved
- Meets World Health Organisation (WHO) effluent quality standards
- NZ Pat Appn No. 529820
- OSET Trial compliant : SWANS

Metro Tanks / Max Tanks

Please ask for our Metro Tank and Max Tank brochures for more information.