

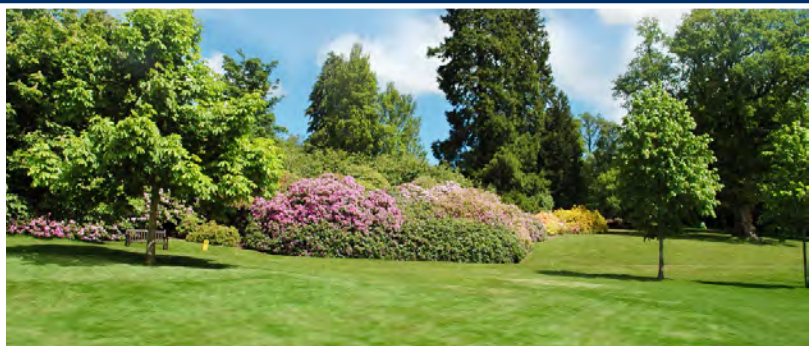


# Environmental Septic Tank systems

## Septic Tanks/Pump Stations/AirTech™



# Environmental Septic Tank Systems



Whether you are storing, transporting or distributing water or wastewater, RXP has the solution for you, with manufacturing facilities New Zealand wide and selections of strong supporting brands.

## We've got what you need

**RXP has a wide range of products to support your water and wastewater distribution.**

### Tanks

135L – 30,000L.

Whatever your requirements RXP has it.



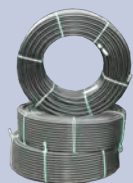
### Farm Troughs

12L – 1200L to suit your animals water requirements.



### Polyethylene Pipe (Polypipe) and PVC Pipe

Range from 15mm – 450mm to suit many tanks. Pipe is rated 5bar (72 psi) – 25bar (375psi).



## Solutions for your Environment

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 may vary between authorities you need a septic tank or secondary 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 retrofitted to existing tanks to increase treatment capacity.

## Strength

In developing the new tank the RXP 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 RXP 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 & 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





# Pump Chambers / Step Tanks / Retention Tanks

The Pump Chambers are made from high strength polyethylene 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-floatation for wet areas.

The Pump Chambers have been specially designed for domestic applications where a property is below the conventional council sewage line.

## Connection for pipes

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

### Pump Chambers (No pump supplied)



- These tanks do have a 24 hour storage emergency capacity
- Other pump packages can be priced on request
- Pump Chambers are designed to be installed underground
- 50mm TTI fitted to the tank outlet

## Pump Stations (Step Tanks)

The Pump Station packages will be internally plumbed from the pump to the outlet. They also come with an electrical junction box which will connect the power cable for the pump and high water alarm.

### RXST PC 10.120GA - Single Pump Station

Features include

- 1 grinder pump (Davey 120GA)
- IP65 enclosure
- Hi water alarm and isolating switch
- LCD light

### RXST PC 33.2X120GA - Single Pump Station

Features include

- 2 grinder pumps (Davey 120GA)
- IP65 enclosure
- Dual duty/duty standby operation
- 1 x Hi water alarm
- 2 x float switches

## Connection for pipes

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



# AirTech™ Wastewater Treatment System



## 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 potentially irrigate landscape, shelterbelt, coppice wood lots or existing planted areas.

For the environmentally minded this means that the sewage and wastewater is treated to national standards within the property with little or no environmental impact on the land.

## Why choose AirTech™?

The AirTech™ is equipped with a wireless alarm system with sensor interface. This system will alert you with an audible and visual alarm in the event of an Air or Pump failure. It will also alert you to your servicing requirements.

The AirTech™ range are inexpensive when compared to other systems, especially concrete. They are designed as a plug and play system, therefore no need to wonder what else will I need to buy.

## Environmental benefits

- Odourless
- Little or no environmental impact on the land

- Low visual impact
- OSET trial results (low nitrate levels)
- High degree of breakdown achieved by the system
- Exceeds national standards for domestic waste water management

## Domestic benefits

- Odourless
- Minimal sound
- Low running costs
- User friendly
- More flexible in the ground than concrete
- Easy to use, NZ's ONLY wireless touch screen alarm system for self monitoring
- 15 year guarantee (see warranty)
- RXP AirTech™ tanks are installed by approved installers

## Options

### Airtech™ 9000 (2000 litres / day)

Ideal for houses of up to 8 bedrooms

### AirTech™ 7000 (1600 litres / day)

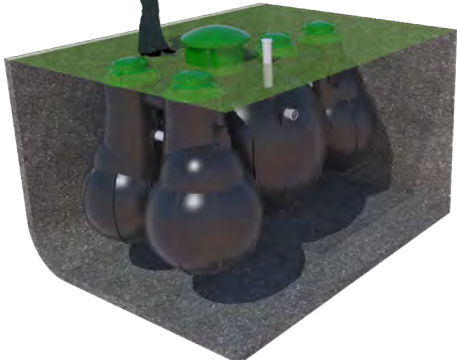
Ideal for houses and batches up to 3 bedrooms.

All AirTech™ tanks are installed by RX Plastics approved and certified installers

## AirTech™

### AirTech™ 9000

- RXSTAT33151210
- Total 2000 litres per day discharge
- System ideal for house up to eight bedrooms
- Delivered to site
- Dripline supplied as standard
- Universal wireless controller
- 670kgs



### AirTech™ 7000

- RXSTAT331210
- Total 1600 litres per day discharge
- System ideal for houses and baches up to three bedrooms
- Delivered to site
- Dripline supplied as standard
- Universal wireless controller
- 520kgs



# Septic Tank Systems - Gravity, Pumped, Syphon, Flout

## 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-floatation for wet areas.
- Packages will be internally plumbed up to the outlet.
- Inlet 100mm / outlet 100mm.

## Connection for pipes

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

## Single, 2 and 3 Stage Septic Tanks

Features include:-

- Light weight
- Stainless Steel Filter (NZ only)
- 100mm inlet and outlet, or 50mm TTI
- No Hi Ab required
- 15 year guarantee (see warranty)

## Septic Tanks

Pump Systems can be fitted by RXP on request.

**Drainage pump code is: RXST.DP15SET**

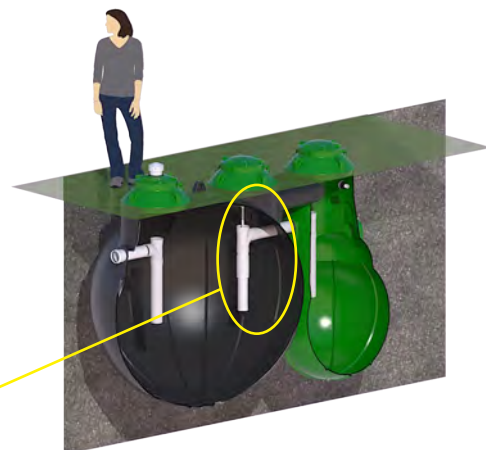
Davey D15VA (150W) comes with pipework.

High water alarm (visual) can be supplied by RXP on request.

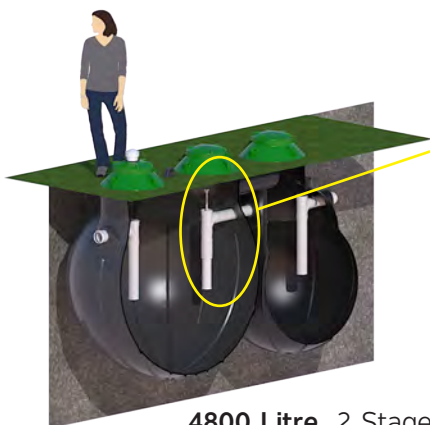
**High water alarm code is: RXST.PCALARM**



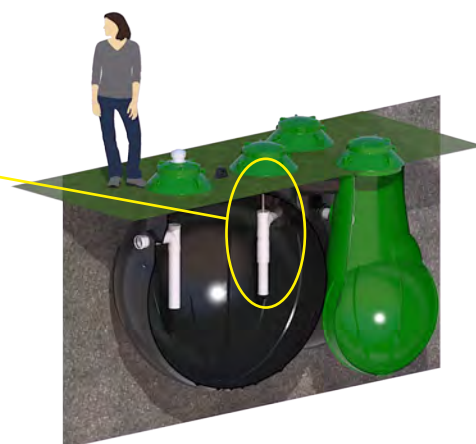
**3300 Litre** Single Stage Filtered Septic Tank  
**RXST 33** 170kgs



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



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



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



## Compliance and certification

### The RX Septic Tank range meets the objectives of:

Australia New Zealand joint standard 1546 1

Australia New Zealand joint standard 1547

ARC Environment TP 58

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

Agent:

### RXP

PO Box 360, Ashburton

P: 0800 288 558

E: [customerservice@rxplastics.co.nz](mailto:customerservice@rxplastics.co.nz)

[rxp.co.nz](http://rxp.co.nz)

Version 062021

