

AIRTECH™ 9000

AERATED WASTEWATER TREATMENT SYSTEM



by aliaxis

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

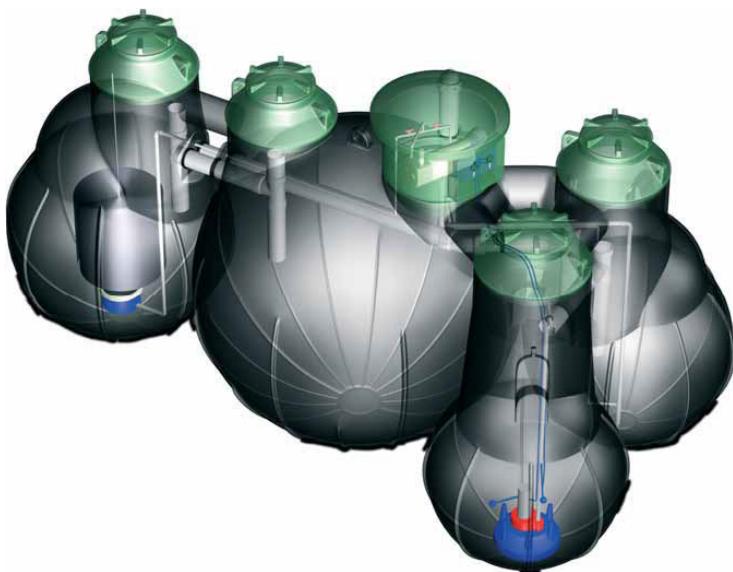


OUR SOLUTION

The RXP AirTech™ 9000 system, is an efficient, lightweight sewage treatment plant that safely and effectively processes all household sewage and wastewater. It recycles the wastewater into clear, odourless nutrient enriched water to irrigate landscape and planted areas, through driplines.

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.

Designed recognising the latest industry standards and incorporating many innovative features, we believe the AirTech™ 9000 is unequalled by any existing polyethylene tank system available today.



CHAMBER SYSTEM

PRIMARY SEPTIC CHAMBER

Where all household sewage and wastewater is discharged and the settling out of up to 95% of solid waste occurs. There is also a reduction in the Biochemical Oxygen Demand (BOD 5) of up to 40%. It has a large liquid working capacity of 3300 litres ensuring maximum retention time allowing adequate anaerobic digestion of the accumulated solid waste. It is a sealed chamber making sure there is no crossflow contamination between the separate treatment processes within the system. The outlet is fitted with an industry proven 3mm biofilter minimising solid waste carry-over integrating a flow modulation baffle to manage peak flow levels limiting shock loading of the system.



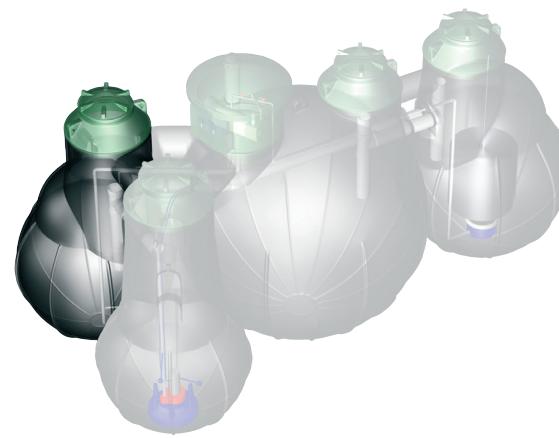
AERATION CHAMBER

The partially treated wastewater flows into the Aeration Chamber where aggressive digesting aerobic bacteria further reduce the suspended solid sludge. Efficient oxygen transfer through fine air diffusion maintains high aerobic activity and population. Increased surface area through additional submerged media enhances and accommodates a greater growth of bacteria.



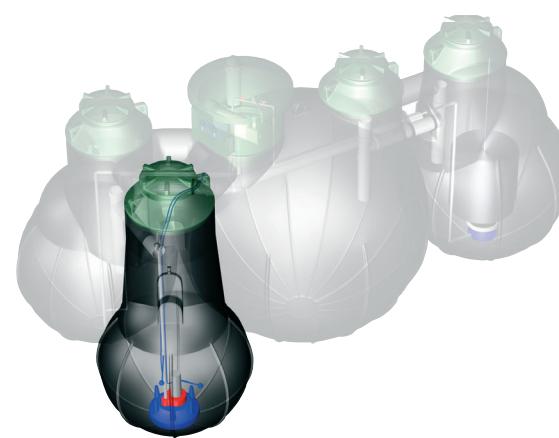
CLARIFICATION CHAMBER

Clean and dead effluent is gravity fed into the Clarification Chamber where, in quiescent conditions, all dead bacteria will settle and be returned to the Primary Chamber through venturi airlift manifold. This is done once a day with a timer.



IRRIGATION PUMP CHAMBER

The gravity flow of clean, clear odourless effluent into the Irrigation Pump Chamber is nutrient enriched and is recycled through a designed irrigation system to enhance landscape on your property. This chamber is protected with an alarm that will activate in the unlikely event of a pump failure, and as required by regulations, has a capacity to hold up to 1000 litres of effluent storage.



TECHNICAL INFORMATION

Tank construction - Strongest Grade

Polyethylene

Tank production - Rotational Moulding

Features:

- Primary Septic Chamber 3300 litres
- Creation Chamber 1500 litres
- Clarification Setting Chamber 1200 litres
- Pump Chamber 1000 litres
- Nominal Operating Capacity 7000 litres
- Additional Storage Capacity 2465 litres
- 3mm Bio Filter fitted
- Intergrated Flow Modulation Baffle

Dimensions:

- Height 2200mm
- Width 2400mm
- Length 4500mm
- Weight 600kg

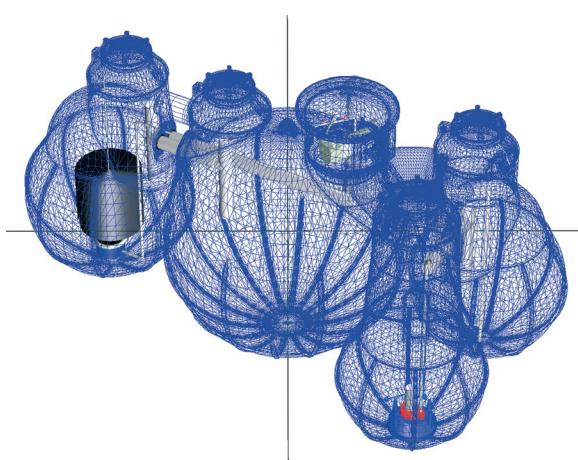
Electrical:

- Irrigation Pump .75kW
- Air Blower .051kW

COMPLIANCE & CERTIFICATION

The RXP Septic Tank range meets the following:

- OSET Performace Certificate
- AS/NZS 1546 1:1998 (On-site domestic wastewater treatment units Septic tanks)
- AS/NZS 1547 2000 (On-site domestic wastewater management)
- ARC Environmental TP 58 Second Edition
- Design and testing verified by registered engineers and consultants
- Process analysis undertaken at Lincoln University: Andrew Dakers, M.E. NAtural Resources Engineering
- Member On-site Wastewater Special Interest Group (OSW-SIG)
- Local Authority Approved
- Meets World Health Organisation (WHO) effluent quality standards
- ISO9001 Quality Management System:Telarc Registration No. 807
- NZ Pat Appn No.529820



EQUIPMENT & COMPONENTS

Controller Alarm Communication System

The AirTech™ 9000 Aerated Wastewater Treatment System is managed by a SmartWater controller. The controller is a wireless alarm system.

This unit monitors the Air Blower and High level liquid alarm. This enables action to be taken to ensure optimum operation of your system.

The units also provides six month reminders for servicing and can also monitor water tank usage with a tank level indicator (up to 9 tanks).

Air Blower



- Low flow, high pressure performance
- Die-cast aluminium sound chamber
- Low power usage only a 51 Watt blower
- Ideally suited for effluent aeration
- Low noise, independently tested below 40db

Proflex Disc Diffuser



- Uniform bubble distribution
- Flexible rubber membrane
- Auto checkvalve preventing backflow
- Heavy duty EPDM diaphragm
- Precision perforated slits
- Corrosion resistant polypropylene
- PVC retaining ring

Biological Treatment Media



- Submerged aerobic application
- High specific surface area (m^2/m^3)
- Strong construction
- Low maintenance
- Fast bio-mass accumulation
- Lightweight
- Non-clog characteristics

Bio Filter



- Stainless steel filter
- Large filtration surface area
- Improved efficiency
- 3mm filter screen
- Flow modulation outlet
- Manages peak flow levels
- Long life
- Suited to NZ conditions

Submersible Irrigation Pump



- Double mechanical seal
- Stainless steel shaft and motor shell
- Twin impeller design
- Corrosion resistant polycarbonate impellers
- Stainless steel fine mesh suction strainer
- Large surface area suction strainer
- 32m working head

IRRIGATION EFFLUENT DISPOSAL

Irrigation Lateral



- Purple dripline to identify effluent application
- 17mm low density linear PE lateral tube
- Integrated emitters set up at specific spacings
- Pressure compensating emitters, 1.5l/min, 2.3l/min and 3.2 l/min application
- Automatic air relief valve
- Automatic MFV line flushing valve
- Proven effluent disposal system

Filtmaster Disc Filter



- Disc filter - 130 microns
- Unique design of the discs guarantees a real filtering in microns, constant in all the filtering process

WARRANTY

The AirTech™ 9000 Aerated Wastewater Treatment System is covered by the RX Plastics extended warranty and covers the product to be free of defects in workmanship, and materials for a period of 15 years for all polyethylene rotomoulded tanks.

The manufacturers warranty apply to all other componentry used in the AirTech™ 9000 system.

CUSTOMER CARE

An AirTech™ 9000 Aerated Wastewater Treatment System will provide you with many years of rewarding and reliable performance supported and serviced by our network of installers and service technicians.

Our friendly expert technicians have extensive product and system knowledge and are able to provide you excellent support should you require.

It's all part of our commitment to your total satisfaction and peace of mind.



RXP

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