



# BIOROCK® Waste water treatment



Non-Electric



Low running costs



Completely silent



Odourless



Small footprint



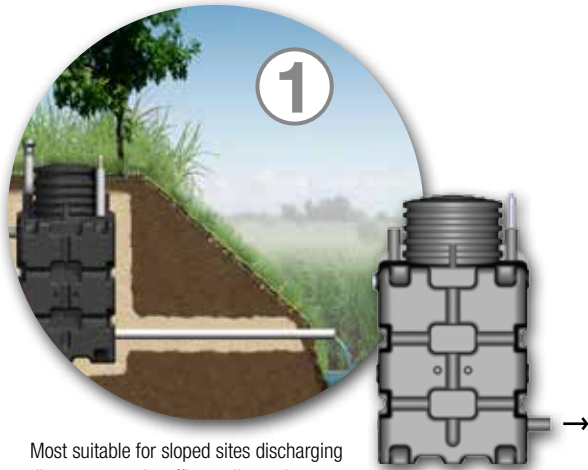
**BIOROCK**  
wastewater treatment

# BIOROCK®



## Non-Electric waste water treatment plants for domestic waste water

BIOROCK was established in 1988 and is now an internationally acclaimed and experienced company and industry leading in compact wastewater treatment technology. BIOROCK systems have already been installed worldwide in the past 25 years. Our proven performance leads to trust of both the users of our technology and our supplier's network, which is the basis of our success.



Most suitable for sloped sites discharging direct to a gravity effluent disposal system.

## The BIOROCK® Non-Electric treatment process

Initially the raw sewage (A) enters a primary tank (PT, B) to provide separation and the breakdown of organic solids (Primary Treatment). The sewage then passes through an effluent filter before discharging into the BIOROCK® unit which incorporates the well proven aerobic digestion process (Secondary Treatment) and filtration process (Tertiary Treatment).

BIOROCK uses a material with huge surface area which allows colonization of the necessary bacteria, a process which is essential for the effective treatment of domestic wastewater.

The BIOROCK media is highly resistant to degradation and remains extremely stable over the long term - our 25 years' experience in the industry being proof of this.

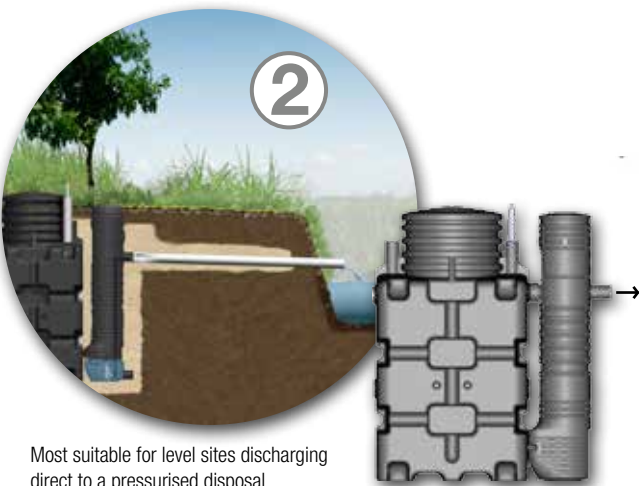
- Very Stable Inorganic material - does not break down over time, unlike "organic" media
- Requires little maintenance – scraping and scarification is not necessary, unlike for organic media
- The Structure and Composition ensures unsurpassed and unique surface treatment with exceptional purification results
- Ecological material, locally produced and recyclable

**BIOROCK offers a much more efficient and ecological wastewater treatment process compared to traditional techniques that are very high in maintenance and energy consumption.**

### BIOROCK offers 2 discharge options :

1. BIOROCK gravity discharge
2. BIOROCK high-level discharge

For the high level pump discharge system we supply a clip-on pump station. We can supply a discharge pump and controller if required.



Most suitable for level sites discharging direct to a pressurised disposal system, drainage field or raised bed.

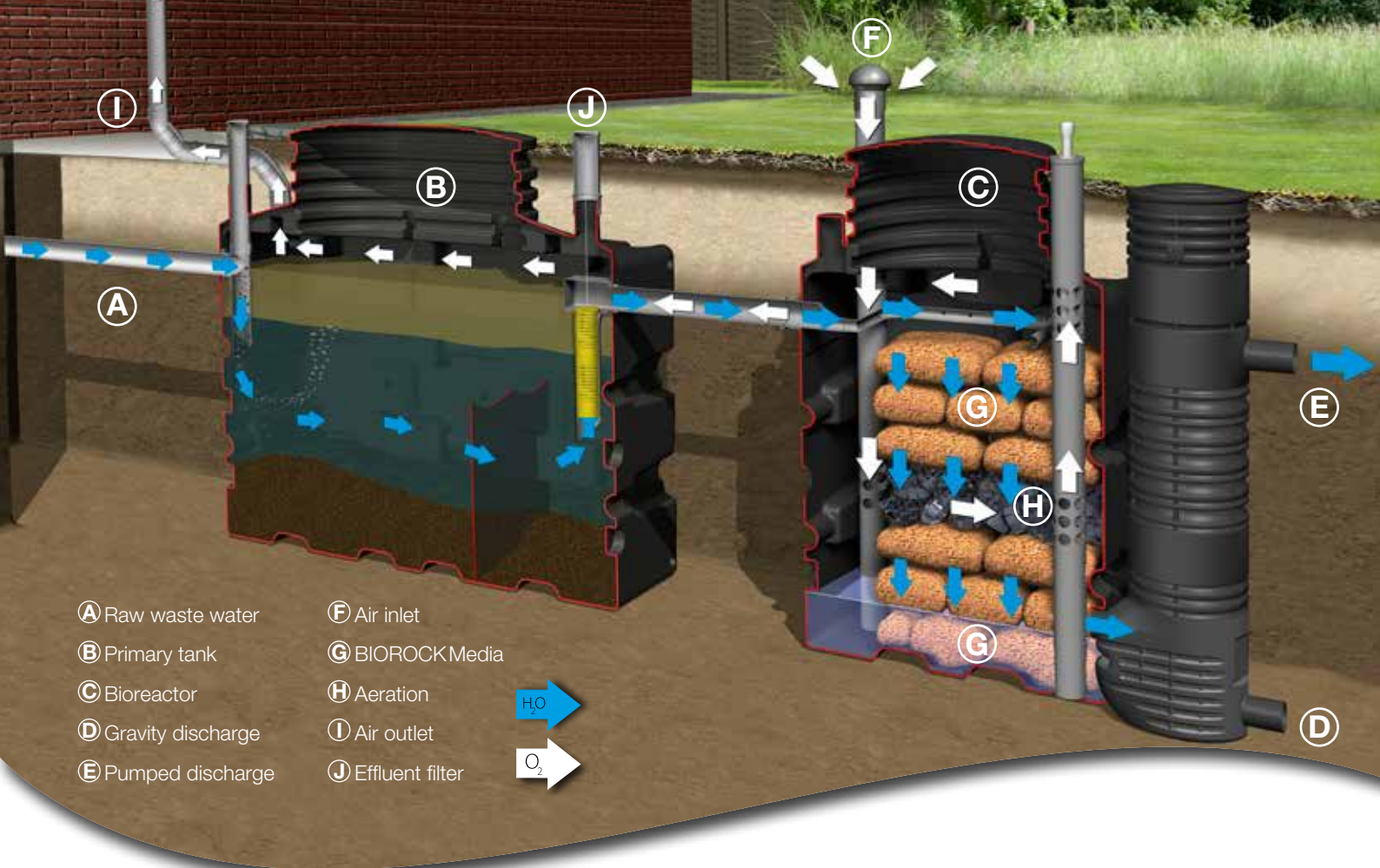
\*subject to local or national regulations.

## Installation for all type of ground conditions and applications.

- High ground-water sites.
- Reinforced and durable, the BIOROCK units and Primary tanks are reinforced as standard enabling them to be structurally sound in all ground conditions.
- The BIOROCK System has the ability to handle intermittent (seasonal) wastewater loadings, even during long absence periods
- Holiday Homes, Campsites, Caravan Parks, etc.
- The system can also handle low utilization levels without compromising the treated effluent quality.







## Unique advantages

BIOROCK provides a revolutionary, efficient and reliable compact wastewater treatment solution. Very compact, our systems are free from any blower or air diffusers. They don't need any electricity for the treatment process, leading to minimal maintenance and repair costs, the lowest operational costs and the longest desludge intervals.

These unique advantages lead to significant costs savings for the user compared to conventional wastewater treatment plants, as the reliability of the system is maximized with no possible breakdowns thus no need for expensive spare parts. The superb purification results produced by BIOROCK have placed our systems in a leading position when compared with older & traditional wastewater treatment techniques.

The BIOROCK® systems are available with a range of optional accessories to suit various applications.

### Revolutionary technology

- ✓ Septic tank replacement / upgrade
- ✓ Non-Electric sewage treatment process
- ✓ 24 Hour start-up period
- ✓ Long absence periods acceptable

### Unique advantages

- ✓ Completely silent
- ✓ Low operational costs
- ✓ Very light maintenance
- ✓ Long desludge interval

### Sustainability

- ✓ Superb effluent quality
- ✓ Low carbon footprint
- ✓ Ecological material, locally produced and recyclable

## FACTS

### TRADITIONAL VERSUS BIOROCK

Non-Electric purification process

Traditional units

BIOROCK

Silent & Odourless

Handles Intermittent Loading

Handles absence periods

Handles most household cleaners

Handles power failure

Septic tank conversion unit\*

Intensive maintenance

High sludge production

High operational costs

NO

NO

NO

NO

NO

NO

NO

YES

YES

YES

YES

YES

YES

YES

YES

YES

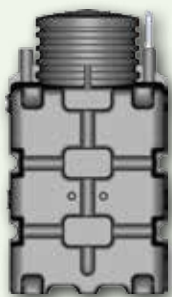
YES

NO

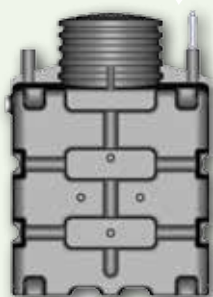
NO

NO

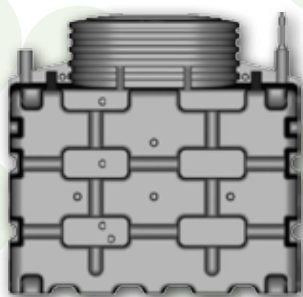
# The BIOROCK® range of waste water treatment plants



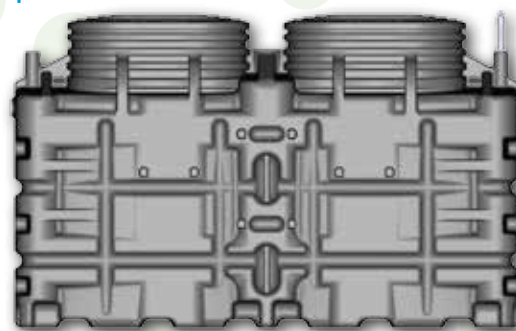
ECOROCK-1500



ECOROCK-2000



ECOROCK-3000



ECOROCK-5000

	ECOROCK-1500	ECOROCK-2000	ECOROCK-3000	ECOROCK-5000
Capacity in P.E.	4/6 p.e.*	10 p.e.*	15 p.e.*	30 p.e.*
Capacity in litres/day	600/900	1500	2250	3750
Material	HDPE	HDPE	HDPE	HDPE
Length	1150 mm	1450 mm	2150 mm	3550 mm
Width	1150 mm	1150 mm	1150 mm	1150 mm
Height unit (max.)	2100 mm	2100 mm	2100 mm	2175 mm
Weight (empty)	186 kg	223 kg	297 kg	625 kg
Δ in- & outlet pipe	1098 mm	1098 m	1098 mm	1213 mm

## Purification results BIOROCK®

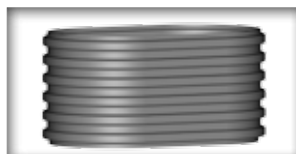
Tested to conform to AS/NZS 1547:2012.

BOD <sub>5</sub>	3 mg/l	99%
TP	3,3 mg/l	56%
S.S.	6 mg/l	98%

Full test results are available upon request

\* Based on 150l/d/p.e. The capacity of the individual ECOROCK-5000 unit can be increased if the required effluent quality is of a lower standard than the results, achieved during the AS/NZS 1547:2012. Performance test. \*

## Options BIOROCK



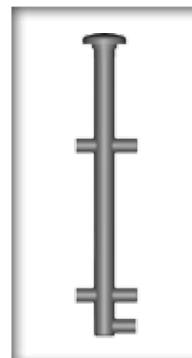
Extension set ø 700 x 1200 mm



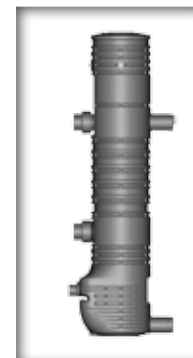
Extension set ø 400 mm



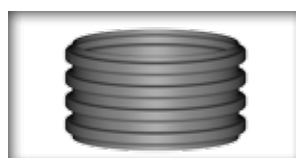
Mechanical fan ø 110 mm



Sampling pipe ø 160 mm



Pumping well ø 400 mm



Extension set ø 700 mm



Effluent filter for primary tank



Clips for above ground installations

## Our support

- A brand with strong values
- Access to licensed products
- Daily support by our team of professionals
- Excellent hands-on trainings
- Warranty: 25 years on tanks / 10 years on BIOROCK media\*

\*subject to conditions, contact us for details



**BIOROCK**  
wastewater treatment



To become a trained and approved BIOROCK certified professional and be part of our network: Please contact us today:

**Contact us!**  
Call:  
**021 645 199**  
e-mail:  
**info@biorock.co.nz**

BIOROCK (NZ) Ltd,  
P. O. Box 46 234, Herne Bay,  
Auckland 1147, New Zealand

[www.biorock.co.nz](http://www.biorock.co.nz)