

BIOROCK® units

Non electrical Sewage Treatment Plants for domestic waste water



BIOROCK® was established in 1988 and is now an internationally acclaimed and experienced company and an industry leader in (compact) sewage water treatment technology.

The BIOROCK Series is a range of compact sewage treatment plants, denominated into 4, 6, 10, 15 and 30 person (PE) systems. The revolutionary and fool-proof BIOROCK® units use a biological process and are gravity fed, requiring no electricity or moving parts in the treatment process. As a result of this, maintenance and operational costs are extremely low, and reliability is maximized. The durable HDPE tanks are produced and assembled in our own factory. The plants are supplied as a complete package for ease of installation.

The BIOROCK® system functions as a two stage treatment system. Initially the raw sewage enters a primary tank 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). Where required the BIOROCK® units can be retrofitted to a traditional septic tank.



All the BIOROCK® units and Primary Tanks are durable and reinforced as standard enabling them to be structurally sound in high ground water conditions.

Traditional versus BIOROCK®

BIOROCK® provides a revolutionary and efficient system when compared with many of the other sewage treatment brands available today. The superb results produced by BIOROCK® have placed our systems in a leading position when compared with older & traditional techniques - such as Activated Sludge, SBR, and so on. So many systems on the market are characterized by their energy consumption, high maintenance costs, significant operational costs and a high volume sludge production which leads to frequent de-sludging.

FACTS

TRADITIONAL VERSUS BIOROCK®

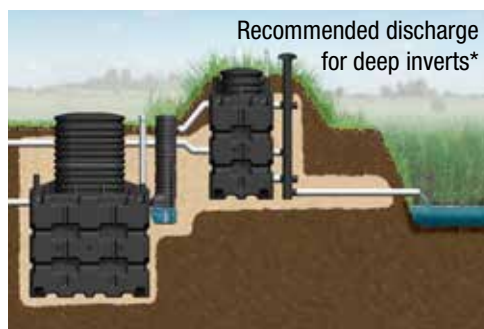
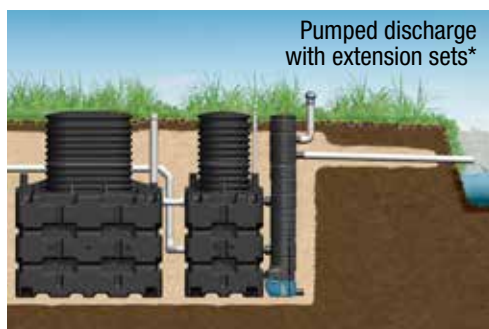
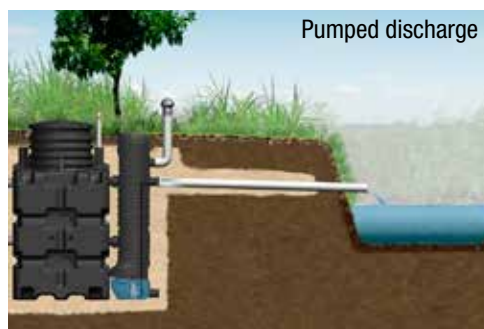
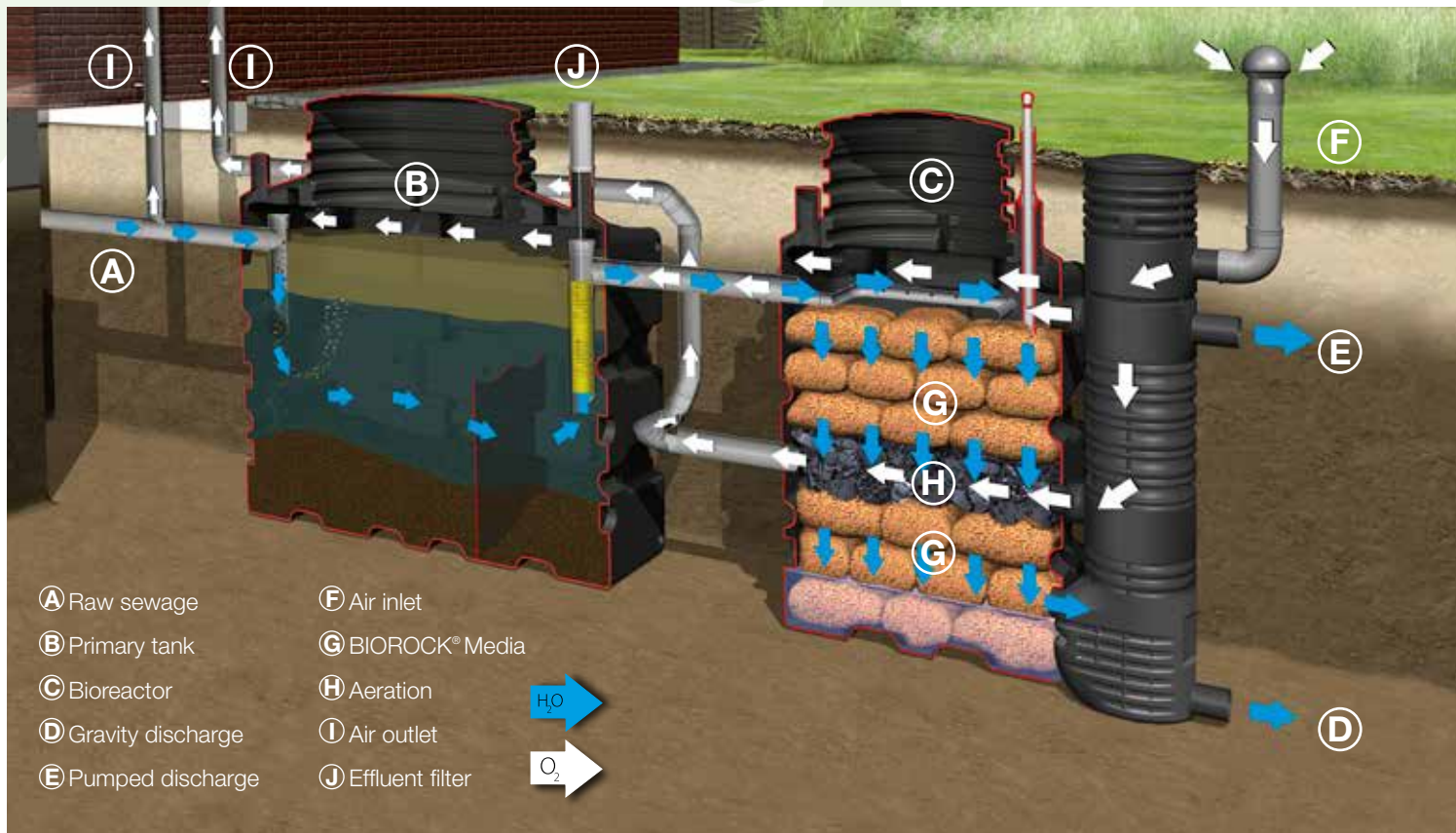
	Traditional units	The BIOROCK® Revolution	
Non-electrical*	NO	YES	 
Silent & Odourless	NO	YES	
Handles Intermittent Loading	NO	YES	
Handles absence periods?	NO	YES	
Handles most household cleaners?	NO	YES	
Handles power failure?	NO	YES	
Septic tank conversion unit?*	NO	YES	
Intensive maintenance?	YES	NO	
High sludge production?	YES	NO	
High operational costs?	YES	NO	

10 YEARS WARRANTY MEDIA®
25 YEARS WARRANTY TANK

* Subject to site conditions

How it works

The BIOROCK® Systems treat the effluent in 3 stages.



Revolutionary technique!

- ✓ No electricity required
- ✓ No moving parts
- ✓ 24 Hour start-up period
- ✓ Long absence periods acceptable

Unique advantages

- ✓ Completely silent
- ✓ Lowest operational costs
- ✓ Superb effluent quality
- ✓ Septic tank conversion unit

Sustainability

- ✓ Long lifespan BIOROCK® Media
- ✓ Low carbon footprint
- ✓ Minimum annual maintenance
- ✓ Long desludge interval

* Additional precautions may be required for deep installation

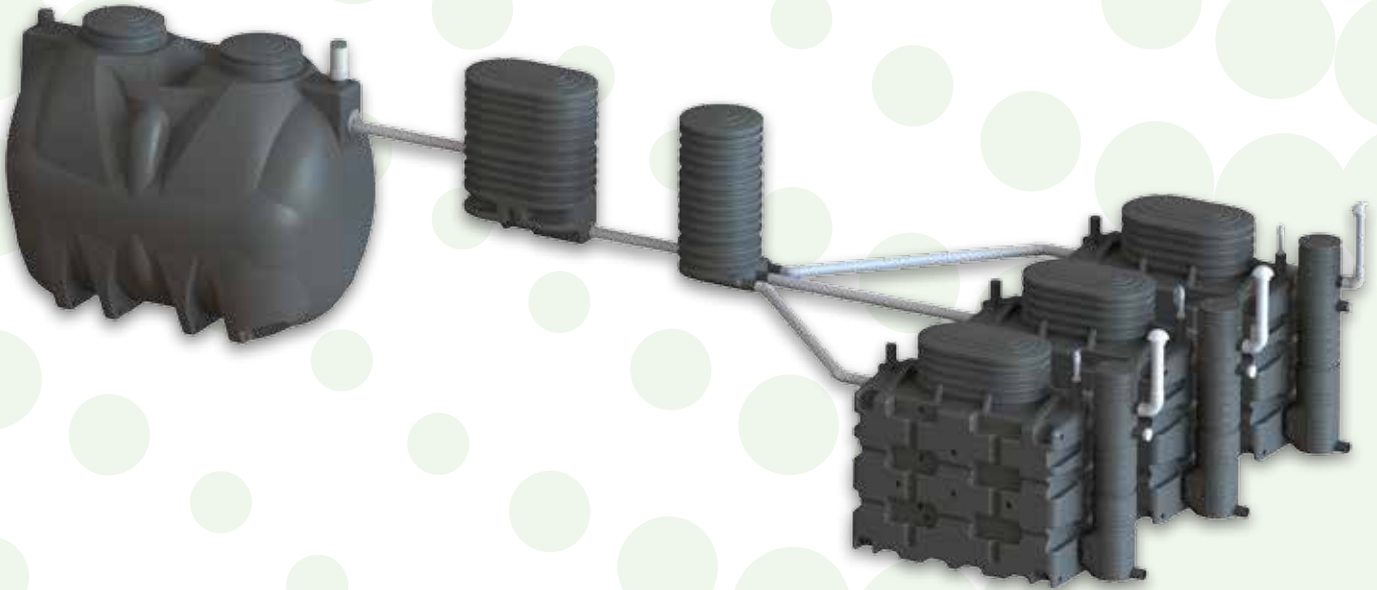


*The capacities of the individual BIOROCK® Units can be increased if the required effluent quality is of a lower standard than the outstanding results, achieved during the EN-12566-3 Performance test.

BIOROCK® Multiple System

If the BIOROCK units are installed in parallel after the primary tank, they can cater from 60 up to 300 PE.

The BIOROCK-S units are installed in parallel after the primary tank. Following the Primary tank is a "Flow Control Chamber" (FCC) and a Splitter-Box System (SB). The FCC acts as a 'header tank' to provide a surge of flow through the SB and guarantees equal flow to each of the BIOROCK Units. Multiple SB's are used when it is required to split the flow in the case where more than 3 Units are installed in parallel.



	BIOROCK-S	BIOROCK-L	BIOROCK-E	BIOROCK-F
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 mm	1098 mm	1213 mm

Purification results BIOROCK®

Tested conform EU Norm EN 12566-3

BOD ₅	4 mg/l	99%
COD	26 mg/l	96%
S.S.	3 mg/l	99%

More results are available upon request



EN-12566-1
EN-12566-3
2005 +A1:2009
EN-12566-6



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25 YEARS WARRANTY TANK



BIOROCK

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Non electrical sewage treatment plants



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