



BIOROCK'S NEW GENERATION

NON-ELECTRIC SEPTIC SYSTEMS

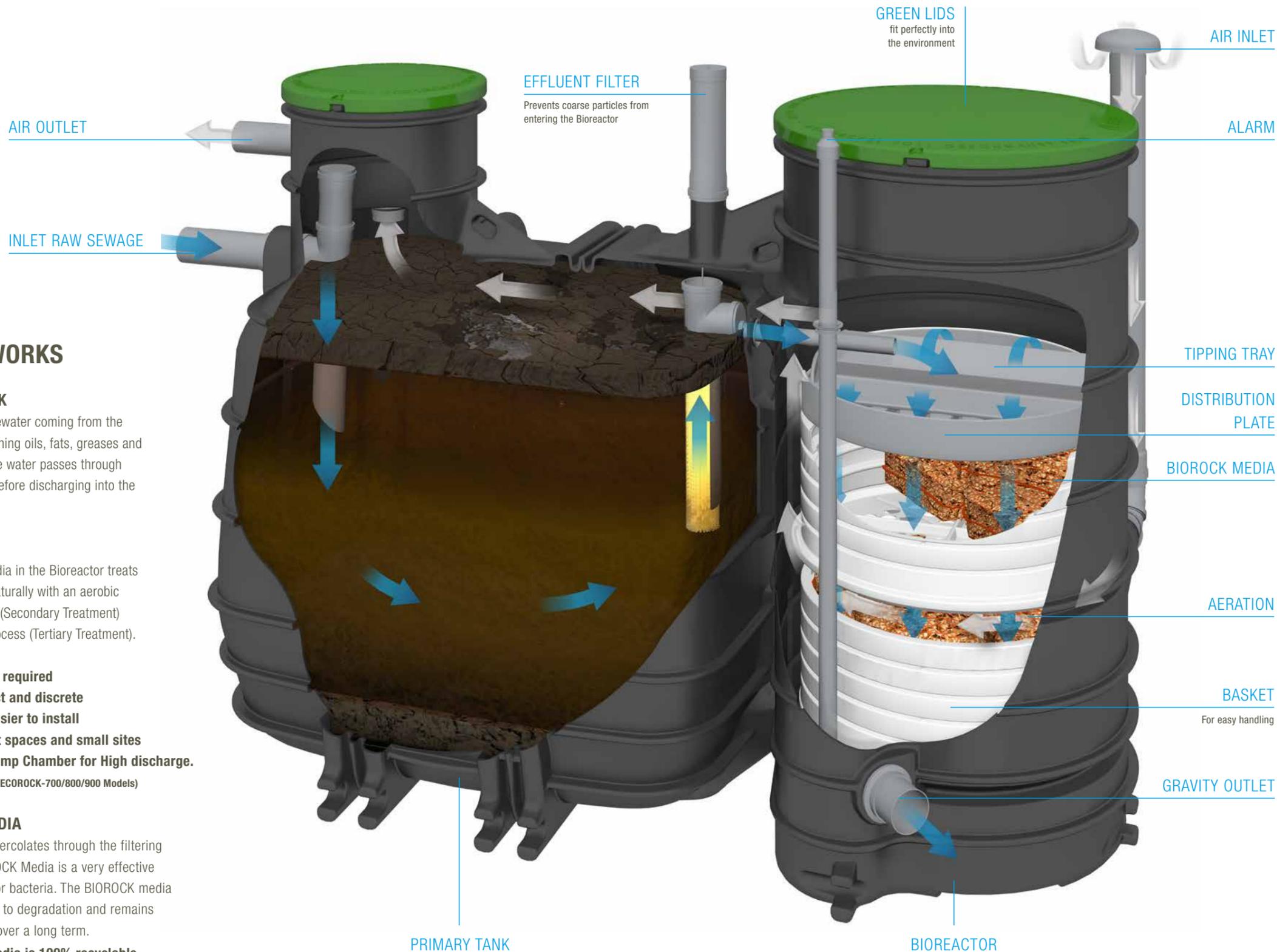


ALL-IN-ONE COMPACT SOLUTIONS FOR DOMESTIC WASTEWATER TREATMENT

Non-Electric Septic Systems

MONOBLOCK

THE ALL-IN-ONE COMPACT SOLUTION



HOW IT WORKS

PRIMARY TANK

Clarifies the wastewater coming from the residence by retaining oils, fats, greases and organic solids. The water passes through an effluent filter before discharging into the BIOROCK reactor.

BIOREACTOR

The BIOROCK Media in the Bioreactor treats the wastewater naturally with an aerobic digestion process (Secondary Treatment) and a filtration process (Tertiary Treatment).

- ✓ No electricity required
- ✓ Ultra-compact and discrete
- ✓ Faster and easier to install
- ✓ Ideal for tight spaces and small sites
- ✓ Integrated Pump Chamber for High discharge.

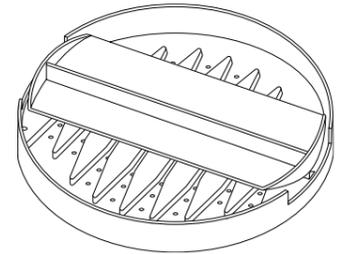
(All MONOROCK & ECOROCK-700/800/900 Models)

BIOROCK® MEDIA

The wastewater percolates through the filtering media. The BIOROCK Media is a very effective carrier material for bacteria. The BIOROCK media is highly resistant to degradation and remains extremely stable over a long term.

The BIOROCK Media is 100% recyclable

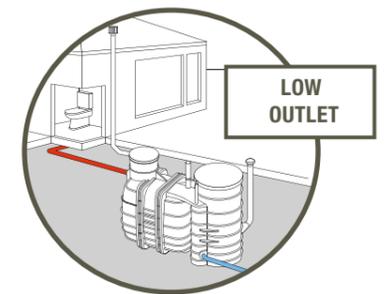
TIPPING TRAY



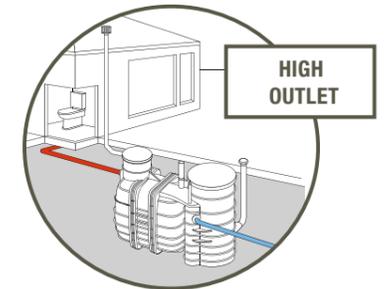
Mechanical distribution of the wastewater on the entire surface of the BIOROCK media.

2 DISCHARGE OPTIONS

1 BIOROCK® Gravity Discharge



2 BIOROCK® Pumped Discharge



Our high-level discharge is equipped with a reliable, high quality, pump kit. This kit is delivered pre-assembled for ease and speed of installation. Intermittent operation by float switch.

MONOBLOCK

PLUG-AND-PLAY SOLUTION

The MONOBLOCK units are designed for rural dwellings, permanent and seasonal, which are not connected to the mains.

The extremely compact purification units are completely pre-assembled and ready for speedy installation.

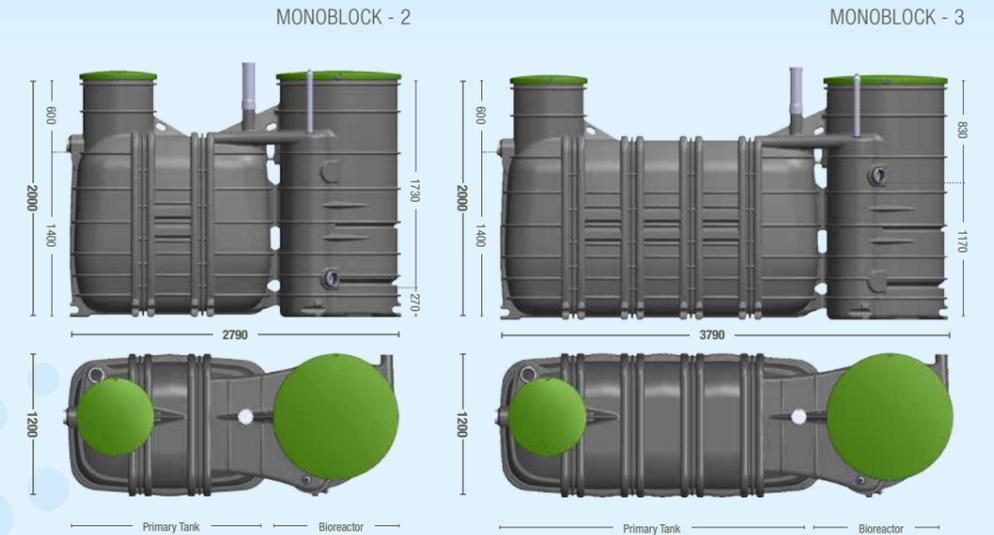
The MONOBLOCK units are available with a 2000 or a 3000 Liters Primary Tank and available in a Gravity Outlet (Low Outlet) or a Pumped Outlet (High Outlet).



MONOBLOCK - 2	700		800		900	
	LOW	HIGH	LOW	HIGH	LOW	HIGH
Water outlet						
Capacity	4 PE	4 PE	5 PE	5 PE	6 PE	6 PE
Hydraulic loading	600 L/d	600 L/d	750 L/d	750 L/d	900 L/d	900 L/d
Volume primary tank	2000 L					
Δ Water inlet & outlet	1130 mm	230 mm	1130 mm	230 mm	1130 mm	230 mm
Weight finished product	369 kg	373 kg	375 kg	379 kg	380 kg	384 kg

MONOBLOCK - 3	800		900	
	LOW	HIGH	LOW	HIGH
Water outlet				
Capacity		5 PE	5 PE	6 PE
Hydraulic loading		750 L/d	750 L/d	900 L/d
Volume primary tank		3000 L	3000 L	3000 L
Δ Water inlet & outlet		1130 mm	230 mm	1130 mm
Weight finished product		469 kg	473 kg	474 kg

* PE = Person Equivalent.



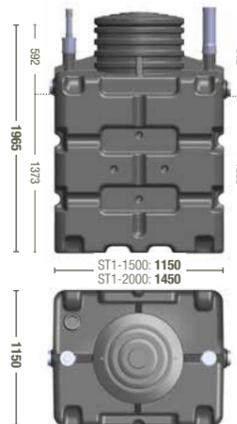
The capacities of the BIOROCK are in accordance with the test results of the EN12566-3 Performance Test.

Weights and dimensions indicated are approximate and not binding. For transport, handling and lifting purpose consult our technical instructions. THE BIOROCK Systems must be commissioned, used and operated as per our Installation guides.

All the BIOROCK Units are made of High Density Polyethylene (HDPE).

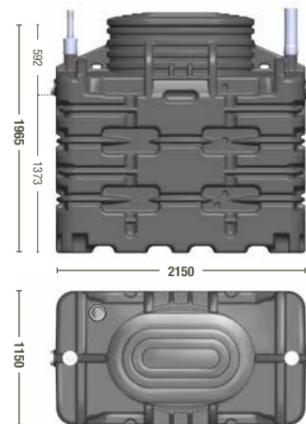
PRIMARY TANKS

BIOROCK - ST1-1500 / - ST1-2000



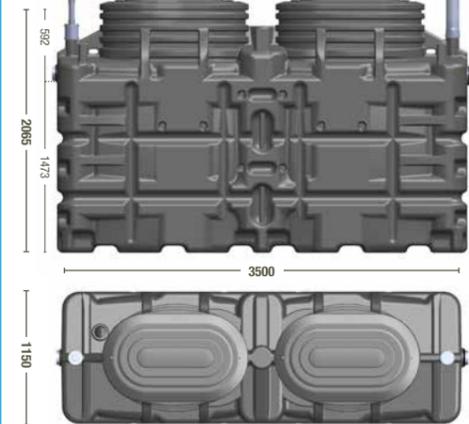
	1500	2000
Volume	1500 L	2000 L
Weight finished product	118 kg	142 kg
Δ Water inlet & outlet	20 mm	20 mm

BIOROCK - ST2- 3000



Volume	3000 L
Weight finished product	200 kg
Δ Water inlet & outlet	20 mm

BIOROCK - ST1- 5000

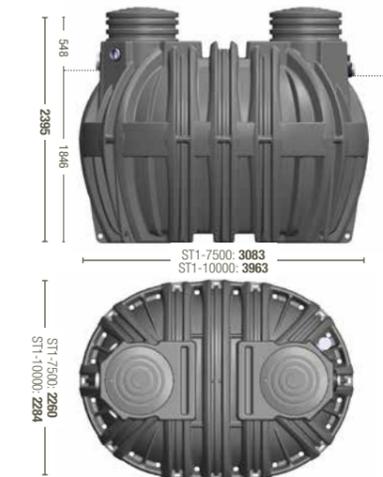


Volume	5000 L
Weight finished product	408 kg
Δ Water inlet & outlet	20 mm

The BIOROCK Primary Tanks are available in volumes ranging from 1500 to 15000 Liters. The 7500 & 10000 Liters tanks can be installed in series for 17500 & 20000 L.

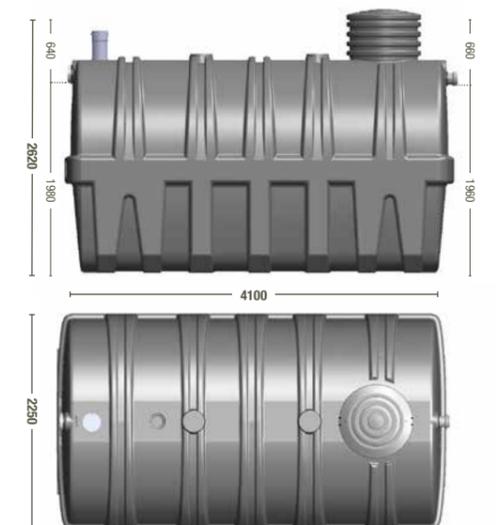
All Primary Tanks are equipped as standard with an Effluent Filter. All water inlets are airtight and have a rodding point.

BIOROCK - ST1-7500 / - ST1-10000



	7500	10000
Volume	7500 L	10000 L
Weight finished product	384 kg	515 kg
Δ Water inlet & outlet	60 mm	60 mm

BIOROCK - ST1-15000



Volume	15000 L
Weight finished product	715 kg
Δ Water inlet & outlet	20 mm

ECOROCK REACTORS

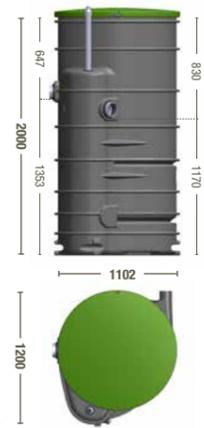
ECOROCK - 700 / 800 / 900

LOW OUTLET

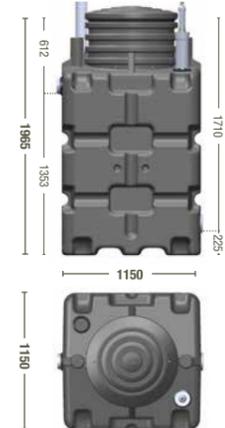


ECOROCK - 700 / 800 / 900

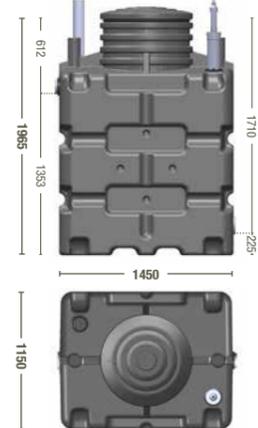
HIGH OUTLET



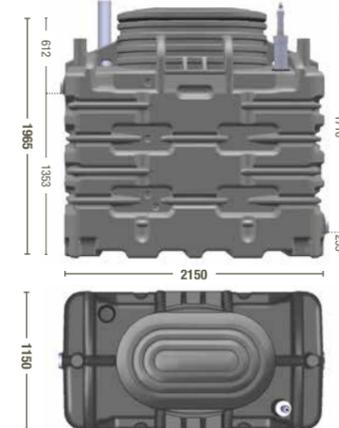
ECOROCK - 1500



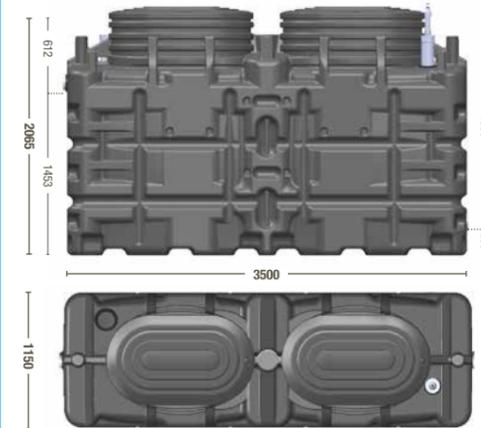
ECOROCK - 2000



ECOROCK - 3000



ECOROCK - 5000



	700	800	900
Capacity	4 PE	5 PE	6 PE
Hydraulic Loading	600 L/d	750 L/d	900 L/d
Weight finished product (LO*)	178 kg	183 kg	189 kg
Δ Water inlet & outlet - LO*	1083 mm	1083 mm	1083 mm
Δ Water inlet & outlet - HO**	183 mm	183 mm	183 mm

Capacity	8 PE
Hydraulic loading	1200 L
Weight finished product	197 kg
Δ Water inlet & outlet	1081 mm

Capacity	10 PE
Hydraulic loading	1500 L
Weight finished product	241 kg
Δ Water inlet & outlet	1081 mm

Capacity	15 PE
Hydraulic loading	2250 L
Weight finished product	304 kg
Δ Water inlet & outlet	1098 mm

Capacity	30 PE
Hydraulic loading	4500 L
Weight finished product	682 kg
Δ Water inlet & outlet	1193 mm

* Low Outlet ** High Outlet

OPTIONS



Wind driven ventilator
Ventilation kits are available for all units as an option.



Effluent filter
for primary tank



Pumping-Chamber
Ø 400 mm



Extention sets
Available for all systems



Sampling Pipe
Ø 160 mm



Clips for
above ground installations

MULTIROCK

MULTIPLE SYSTEMS FOR LARGER CAPACITIES

The **MULTIROCK** systems are **Non-Electric** solutions for commercial systems, such as **small municipalities, remote communities, schools, office buildings, shopping centers, golf courses and camping sites.**

Clustering means that several Ecorock units are installed in parallel. The Ecorock units are fed by an alternating flow from a "Flow Control Chamber" (FCC) and a Splitter-Box (SB) which are installed after a (common) Primary Tank. The FCC acts as a 'header tank' to provide a surge of flow through the flow divider (SB) and guarantees evenly divided flow to each of the treatment units.

OPTIONS FOR MULTIROCK



Flow Control Chamber



Splitter-Box



Pumping-Chamber
ø 400 mm

Since 1988, BIOROCK has become an internationally acclaimed and experienced leader in the field of onsite and decentralized Non-Electric Wastewater Treatment Technologies for residential and commercial sectors.

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. The systems are suitable for most soil and site conditions.

STABLE PERFORMANCES UNDER ALL CONDITIONS

The system can cope with variable loading conditions, including peak and zero-flow (holiday) periods.

BIOROCK is active in all Continents

UNIQUE ADVANTAGES

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

SUSTAINABILITY HIGHLIGHTS

- ✓ Long lifespan BIOROCK Media
- ✓ Low carbon footprint
- ✓ Minimum annual maintenance
- ✓ Long Septic Tank pump out

THE LONGEST WARRANTIES IN THE INDUSTRY



BIOROCK WARRANTY:
25 YEARS ON TANKS*
10 YEARS ON MEDIA*

* Subject to conditions, contact us for details

Up to 99% removal of pollutants

Excellent purification results

All BIOROCK units are tested to International Standards EN12566-1, EN12566-3 and EN12566-6.

BOD₅	up to 99%
COD	up to 96%
S.S.	up to 99%

Detailed results available upon request

BIOROCK® versus Traditional

BIOROCK provides a revolutionary and efficient system when compared with all other Wastewater treatment brands available today.

FACTS

	BIOROCK®	Traditional units
Non-electric*	Yes	No
Silent & odourless	Yes	No
Handles intermittent loading	Yes	No
Handles absence periods	Yes	No
Septic tank conversion unit*	Yes	No
Low maintenance	Yes	No
Low operational costs	Yes	No

* Subject to site conditions

All BIOROCK® systems are delivered complete and pre-assembled for ease of installation.



BIOROCK S.à.r.l. | 4-5, Z.A.E. Le Triangle Vert
L-5691 ELLANGE (MONDORF) | LUXEMBURG
info@biorock.com | biorock.com