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.

**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.

**2 DISCHARGE OPTIONS**
1. **BIOROCK® Gravity Discharge**
   - Mechanical distribution of the wastewater on the entire surface of the BIOROCK media.

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

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

<table>
<thead>
<tr>
<th></th>
<th>700</th>
<th>800</th>
<th>900</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water outlet</strong></td>
<td><strong>LOW</strong></td>
<td><strong>HIGH</strong></td>
<td><strong>LOW</strong></td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>4 PE</td>
<td>4 PE</td>
<td>5 PE</td>
</tr>
<tr>
<td><strong>Hydraulic loading</strong></td>
<td>600 L/d</td>
<td>600 L/d</td>
<td>750 L/d</td>
</tr>
<tr>
<td><strong>Water inlet &amp; outlet</strong></td>
<td>1130 mm</td>
<td>230 mm</td>
<td>1130 mm</td>
</tr>
<tr>
<td><strong>Weight finished product</strong></td>
<td>369 kg</td>
<td>373 kg</td>
<td>375 kg</td>
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</table>

### MONOBLOCK - 3

<table>
<thead>
<tr>
<th></th>
<th>800</th>
<th>900</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water outlet</strong></td>
<td><strong>LOW</strong></td>
<td><strong>HIGH</strong></td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>5 PE</td>
<td>5 PE</td>
</tr>
<tr>
<td><strong>Hydraulic loading</strong></td>
<td>750 L/d</td>
<td>750 L/d</td>
</tr>
<tr>
<td><strong>Volume primary tank</strong></td>
<td>3000 L</td>
<td>3000 L</td>
</tr>
<tr>
<td><strong>Water inlet &amp; outlet</strong></td>
<td>1130 mm</td>
<td>230 mm</td>
</tr>
<tr>
<td><strong>Weight finished product</strong></td>
<td>469 kg</td>
<td>473 kg</td>
</tr>
</tbody>
</table>

* PE = Person Equivalent.
### ECOROCK REACTORS

**ECOROCK - 700 / 800 / 900**
- **Capacity:** 4 PE, 5 PE, 6 PE
- **Hydraulic Loading:** 600 L/d, 750 L/d, 900 L/d
- **Weight finished product:** 179 kg, 183 kg, 189 kg
- **Water inlet & outlet - LO** (Low Outlet): 1083 mm, 1083 mm, 1083 mm
- **Water inlet & outlet - HO** (High Outlet): 183 mm, 183 mm, 183 mm

**ECOROCK - 1500**
- **Capacity:** 8 PE
- **Hydraulic Loading:** 1200 L/d
- **Weight finished product:** 197 kg
- **Water inlet & outlet:** 1081 mm

**ECOROCK - 2000**
- **Capacity:** 10 PE
- **Hydraulic Loading:** 1500 L/d
- **Weight finished product:** 241 kg
- **Water inlet & outlet:** 1081 mm

**ECOROCK - 3000**
- **Capacity:** 15 PE
- **Hydraulic Loading:** 2250 L/d
- **Weight finished product:** 304 kg
- **Water inlet & outlet:** 1088 mm

**ECOROCK - 5000**
- **Capacity:** 30 PE
- **Hydraulic Loading:** 4500 L/d
- **Weight finished product:** 682 kg
- **Water inlet & outlet:** 1193 mm

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### MULTIROCK

**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**

- **Wind driven ventilator**
- **Effluent filter**
- **Pumping-Chamber Ø 400 mm**
- **Extension sets**
- **Clips for above ground installations**

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**OPTIONS FOR MULTIROCK**

- **Flow Control Chamber**
- **Splitter-Box**
- **Pumping-Chamber Ø 400 mm**
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

Up to 99% removal of pollutants

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>BIOROCK®</th>
<th>Traditional units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOD₅</td>
<td>up to 99%</td>
<td></td>
</tr>
<tr>
<td>COD</td>
<td>up to 96%</td>
<td></td>
</tr>
<tr>
<td>S.S.</td>
<td>up to 99%</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>BIOROCK®</th>
<th>Traditional units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-electric*</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Silent &amp; odourless</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Handles intermittent loading</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Handles absence periods</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Septic tank conversion unit*</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Low maintenance</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Low operational costs</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

* Subject to site conditions

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

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