Percolation Supplies

Killelan, Castlebridge, Co. Wexford.
Mobile: (086) 2600438   Email: wquaid@gmail.com

Percolation, wastewater, rain harvesting systems and solutions, we operate throughout Ireland COMMERCIAL AND DOMESTIC

“YOUR EARTH OUR SOLUTIONS”

Both plastic and concrete BAF wastewater treatment systems

www.septicsystems.ie
Klargester Bioficient +

Key benefits:
- Suitable for shallow dig installations
- Robust and lightweight design
- Easy and affordable installation requiring only a small mini digger
- High performance, efficient BAF treatment technology
- Low power consumption
- Minimum visual impact
- An extension neck is available to allow for deeper installation on difficult sites
- A modern design with ease of access for desludging through a wide neck
- Tested and approved to current Irish regulations EN12566 and SR66.
- Gravity or pumped outlet
- Comes with control panel and alarms on pumps
- Comes in two sizes

<table>
<thead>
<tr>
<th>Model</th>
<th>Population Equivalent</th>
<th>Capacity (litres)</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Standard Inlet Invert (mm)</th>
<th>Standard Outlet Invert (mm)</th>
<th>Standard Overall Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BioFicient+ 6 PE</td>
<td>6</td>
<td>3580</td>
<td>1690</td>
<td>2480</td>
<td>500 1500</td>
<td>600 1600</td>
<td>1920 2990</td>
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<tr>
<td>BioFicient+ 10 PE</td>
<td>10</td>
<td>5585</td>
<td>2010</td>
<td>3189</td>
<td>500 1500</td>
<td>600 1600</td>
<td>2245 3245</td>
</tr>
</tbody>
</table>

Eurotank BAF Concrete

Key benefits:
- Strong 45N fibre reinforced concrete
- 4 to 500 PE size tanks
- German engineered BAF technology
- Low energy requirement €167 per year
- Ideal for difficult site conditions
- Tested and approved to current Irish regulations EN12566 and SR66.
- Gravity and pumped outlets
- Audible alarms for pump failure

Internal Chamber Layout and Treatment Process
Example 6PE

The unit consists of 3 chambers housed in 2 tanks
Chamber 1: Primary Settlement ~ 2.4 m³, receives and settles raw sewage/wastewater.
Chamber 2: Reactor Chamber, Aeration and moving Media, Biological breakdown and purification. Huge bacterial surface area contact and oxygenation.
Chamber 3: Clarifier chamber, any remaining suspended solids are allowed to settled to the bottom of the chamber and are transferred by air lift to the primary chamber. Final treated effluent leaves the 3rd chamber by gravity or by effluent pump.
**Septic Tanks**

We supply plastic or concrete septic tanks with Bristle filters and Distribution boxes

- EN certified
- With or without pump chambers

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**Rainwater Harvesting Systems**

We supply the kingspanwater portfolio of rainwater harvesting products, they offer economical solutions for water conservation in the home and garden, give us a call and we can go through the various products on offer.
Biosand Filters

Key benefits over soil polishing filters:

- Small footprint (ideal for tight sites) 10 times smaller than raised soil filters.
- Cheaper and easier to install than soil filters 1 load of sand versus 10 loads of soil.
- No soil testing uncertainty (sand comes manufactured and independently tested)
- Long life span over 40 years used in the US sand does NOT need to be replaced
- Highest final effluent quality of all Tertiary treatment systems on the market.
- Recently EPA approved attenuation stone area for poorer soil sites.
- Our Biosand Filters are ventilated to let air in for the bio process.
- Capacity to deal with large amounts of effluent ie Schools, nursing homes etc.

Example:

Sizing of sand filter attenuation area using PE and soil T value.

Stratified sand filter

Biosand filter using plywood for underground filters

Biosand filter using reinforced plastic panels for overground installations
**Biosand**

We supply non crushed silica sand from natural sand deposits which is round in shape. Our sand is in use for over 15 years and has proven to stand the test of time.

**Key benefits of our biosand**

- Independently tested by an accredited certification house
- Both grades for stratified sand filters and intermittent filters
- Constant research and development
- Round in shape to prevent any clogging
- Regular in house testing to ensure D10 and (UC) uniformity coefficient.
- Hard Sand (sands high in silica are high on the Moh scale)

**Low Pressure Pipe Networks**

Can be supplied in a kit or to order

- Site specifically designed using Usepa.
- Orifice formulae.
- Flushing System-Easy access for maintenance.
- Design proposals and Certification.
- Supplied with coloured coded pipework and easy to fit diagram
Replacement parts for waste water treatment systems

We supply replacement parts for all makes of treatment systems including, air pumps, effluent pumps, pump stations, media, diffusers, bristle filters.

Effluent pumps

Air blower pumps

Bristle filter

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