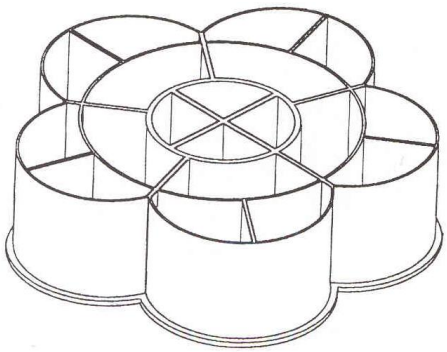
margherita

Loose plastic media for trickling filters and anaerobic digesters

OPERATING PRINCIPLE



The greatest source of water pollution is the discharge of organic substances. Nature spontaneously reacts to this attack by producing bacteria that decompose the organic waste. However, these bacteria may have to face competition for the oxygen they need from other forms of aquatic life and suffer considerably if there is not enough oxygen.
The crucial factor for healthy water is, therefore, oxygen. In fact, the degree of pollution is expressed using the term BOD: biological oxygen demand.
Percolating filters are designed to satisfy this demand for oxygen before the water is sent into natural waterways, thus avoiding the harmful effects of these substances in rivers, lakes and seas.

margherita percolator media is the result of the evolution of stone percolators that have traditionally been used for biological purification to great effect.
This material can be used to create higher structures, less likely to become clogged up and with a more consistent specific surface area.

MAIN ADVANTAGES

- ✓ high efficiency
- ✓ low energy consumption
- ✓ hard to get clogged up
- ✓ low capital outlay
- ✓ easy installation
- ✓ low maintenance
- ✓ regeneration of existing plant

TECHNICAL CHARACTERISTICS

material	polypropylene	
max diameter of single unit	175	mm
height of single unit	50	mm
unit weight	100	g circa
equivalent weight per square metre	50	kg circa
specific surface area	120	m^2/m^3
empty space	95	%