MEDIA: BIO-FILTER CE

Technical Data

BIO-FILTER 100
(100m²/m³)

Dimensions: 54 x 54 x 50 cm

Volume: 0.1458 m³

Number of Blocks per m³: ~ 6.9

Weight (dry): 6.5 kg

Material: PE (polyethylene) – environmentally friendly material

BIO-FILTER 150
(150m²/m³)

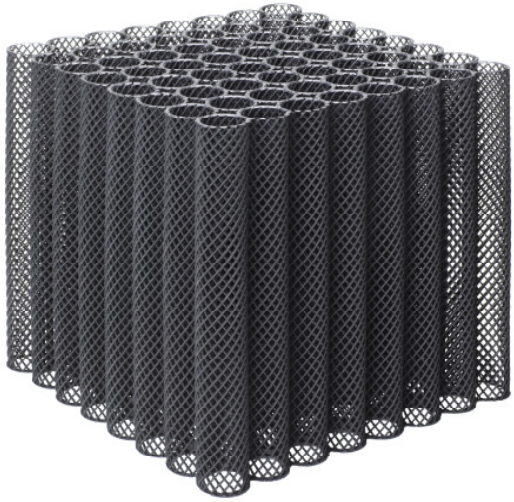
Dimensions: 55 x 55 x 50 cm

Volume: 0.15125 m³

Number of Blocks per m³: ~ 6.6

Weight (dry): 8.5 kg

Material: PE (polyethylene) – environmentally friendly material



Picture merely serves illustration

BIO-FILTER can be used as a submerged media in an aerated/aerobic chamber.

The BIO-FILTER is made from the environmentally friendly material polyethylene (PE) and consists of net tubes, which are welded together to form a rectangular block. The unique surface of the numerous net tubes provides a large accessible surface area for enhanced biological growth on the filter media. The surface acts as a substrate for specialised bacterial strains, which in turn are able to treat and degrade a wide range of wastewater qualities.

The treatment capacity of a biological filter basically depends on the quantity of bacteria that the filter can accommodate. In other words, a larger specific surface area provides a habitat for a larger bacterial population.

Future construction, refurbishment or upgrading of biological wastewater treatment plants is merely a matter of creating optimal "living conditions" for the bacteria. The bacteria must thrive on the substrate in order to perform. BIO-FILTER has excellent features in this respect. Please see the main features of the BIO-FILTER below:

Features of the BIO-FILTER:

1. The surface is rough as this enables an expeditious accumulation of the biological membrane.
2. The BIO-FILTER is constructed in such a way that it is possible to clean it on the spot, i.e. the holes are vertical from end-to-end.
3. The structure of the BIO-FILTER ensures a sufficient aeration of the media block (a sufficient high porosity).
4. The structure of the BIO-FILTER is designed that the washed off parts of the bio-film can pass through the filter (**no clogging**).
5. The BIO-FILTER is constructed in round oval threads. A growth on these threads will increase the diameter and thus increase the active surface. This effect is not achieved by a filter medium with a plain surface.
6. The BIO-FILTER is biologically and chemically un-degradable.
7. The BIO-FILTER is mechanically strong in order to sustain overlying material.
8. The BIO-FILTER is UV-stable and can withstand variations of temperature.
9. The BIO-FILTER is made from environmentally compatible material - PE (not PVC).
10. It is possible to remove the BIO-FILTER for service, cleaning or reuse in other plants.
11. The BIO-FILTER has a sturdy structure and permits a person to stand on it. This is an advantage when performing the service of wastewater treatment systems.
12. The BIO-FILTER can be cut to suit all types of tanks without any essential waste. Any remaining pieces can be fitted to complete blocks (i.e. with the help of cable-binders).