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RKPLAST

RK BioElements





RK Plast's new Bio Media - RK BioElements

RK Plast A/S has since 1984 developed and produced injection-moulded plastic components.

In cooperation with Danish fish farm owners and professional consultants, we have developed and patented a new unique biological bio-media called RK BioElements.

RK BioElements are primarily suitable as biological filters for water purification in aquaculture and water treatment.

RK BioElements may with great advantage, be used for air clearing and filtration of ochre in waterworks.



**SAVE
WATER
CONSUMPTION**

RK BioElements MEDIUM

Used in conjunction with "moving bed" filters.

The medium elements are specially designed and manufactured with a density of 1,00 g/cm³.

In "moving bed" filters, this density gives a large power/energy saving.



**SAVING
ENERGY**

RK BioElements HEAVY

Used in conjunction with "down-flow fixed-bed" filters.

The Heavy BioElement has a density of 1,20 g/cm³.

The BioElements large specific surface area (750 m²/m³) makes it possible to achieve a higher and more efficient decompositions rate with compact filters.

Energy and water usage in return rinsing is minimized significantly as a result of the unic design.

Thoroughly tested in most of Danish model fish farms.



RECYCLING

RK BioElements LIGHT

Used in conjunction with "up-flow" and "moving bed" filters.

The light BioElement has a density 0,93 g/cm³.

The patented asymmetrical design provides good cleaning performance as the elements don't "wedge" together with each other.



**CLEAN
WATER**



**SAVE THE
ENVIRONMENT**



Technical information:

	LIGHT	MEDIUM	HEAVY
Volume weight of components (kg/m ³)	163	175	210
Number of BioElements (pcs/m ³)	250.000		
Specific surface area (m ² /m ³)	750		

RK BioElements are produced in Polypropylene (PP), which contains no halogens and can be recycled or disposed of by incineration, where the end product is only water and carbon dioxide.

The filler used in RK BioElements Heavy and Medium is Barium Sulphate (BaSO₄). Barium Sulphate is environmentally neutral, ref. safety data sheet: "No danger of toxicity" the material is biological inactive.

**PATENTED
DESIGN**