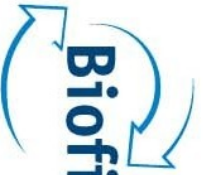


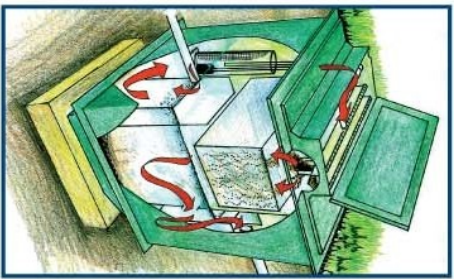
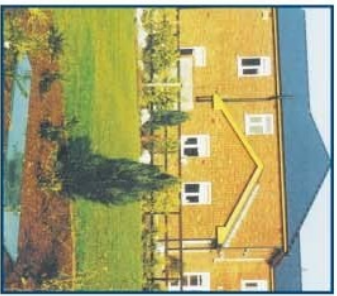
Biofilter



- The Biofilter Sewage Treatment System has been developed in a range of sizes to suit not only **Single Households** but also small communities, hotels, sports & social venues
- FM Environmental:**
- **design and engineering expertise**
 - **over 30 years in the wastewater industry**
 - **nationwide sales and service coverage**

Package Sewage Treatment Systems:

- **odour free**
- **easy to install and unobtrusive**
- **low maintenance**
- **high treatment efficiency**
- **environmentally acceptable**
- **Irish Agrément & EPA compliant**



The BIOFILTER is a three stage purification process employing an aerobic biological principle serving populations of 7 and over. The system is ideal for single house and small communities. Low maintenance requirements and power consumption enable BIOFILTER installations to provide a cost effective answer to the environmental pollution problem.

The BIOFILTER consists of a combined Primary Settlement Tank and Final Settlement Tank, suitably sized and baffled to promote good flow balancing, settlement of solids and a sludge holding capacity. This is all self-contained within a strong, sturdy GRP Structure, manufactured to the highest standards.

A biological filter matrix of uniform and continuous cross flow design provides an ideal surface area on which the active micro-organisms can grow. This is positioned above the Primary Settlement Zone to ensure excellent biological oxidation of organic material. Sited within the Primary Zone and enclosed within a mesh screen, is a submersible pump which continuously recirculates the settled wastewater through the BIOFILTER where the biological treatment takes place. The treated liquid is clarified further in the final settlement compartment before discharging to the percolation area.

The BIOFILTER can also be supplied with a Final Effluent Pump and Alarm option. This gives greater flexibility and allows disposal of the final effluent to sub-soil irrigation or to a mound percolation system. Designed in accordance with BS6297 and certified by the Irish Agrément Board, the BIOFILTER system will meet consent standards of 20mg/l BOD, 30mg/l SS or better when appropriately sized and properly maintained. Careful consideration in design has been given for easy and safe access for desludging, pump maintenance and for inspection purposes.



DE.T.A.
DESIGN ENGINEERS

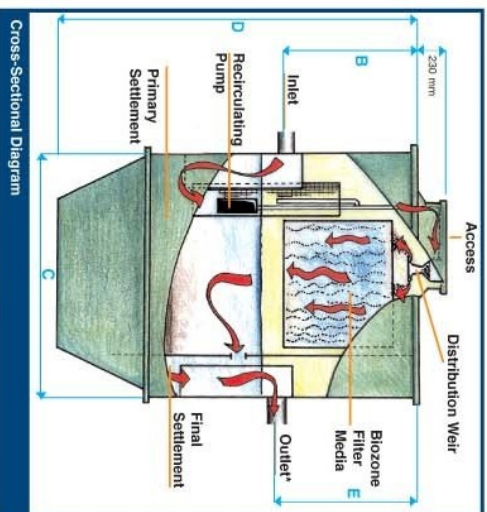


Biofilter



Typical layout of Biofilter Unit and pumped Sub-surface Percolation.

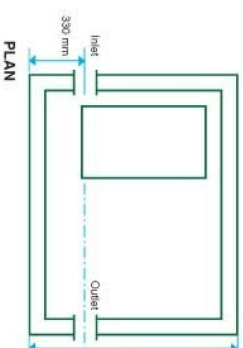
Model Ref	Equivalent Population Average	200 l/h/d Flow	Applied Load BODs 60 g/h/d	Unit Weight Empty	Unit Weight Full	Pump Rating KW	Inlet / Outlet Pipe Diameter	Approximate Dimensions (m)
Model 1	7	1.4	0.42	0.25	3.02	0.15	100	A 1.80 B 0.97 C 1.80 D 2.27 E 1.02
Model 2	14	2.8	0.84	0.31	4.10	0.15	100	1.80 0.97 1.80 2.85 1.02
Model 3	20	4.0	1.20	0.58	9.10	0.15	100	1.80 0.97 3.50 2.72 1.02
Model 4	28	5.6	1.68	0.90	12.80	2 x 0.15	100	1.80 0.97 4.70 2.72 1.02



Cross-Sectional Diagram

The company reserves the right to modify the design or amend the dimensions in respect of the equipment described in this leaflet.

* Pump discharge option available



For larger or smaller applications contact our sales office.



DE.T.A.
DESIGN ENGINEERS

Head Office

FM Environmental Ltd.
Greenbank Industrial Estate,
Newry, BT34 2PB,
N. Ireland

Limerick

FM Environmental (Ir) Ltd.
Shangolden Unit 1,
Shangolden Enterprise Centre,
Limerick, Ireland

Tel: +44 (0) 28 302 6616
From ROI call 048 302 66616
Fax: +44 (0) 28 302 63233
Email: sales@fmenviro.com
www.fmenviro.com

Tel: +353 69 608 93
Fax: +353 69 608 95
Email: fmenviro@eircom.net
www.fmenviro.com