



Multimedia Filters

Product Brochure

Product overview

Multi-layer depth filtration for the removal of turbidity and suspended solids — supplied both as pre-treatment ahead of membrane and ion exchange systems and as standalone clarification.

A multimedia filter uses graded layers of media — typically anthracite over sand over garnet — arranged coarse-to-fine in the direction of flow. This depth-filtration structure captures particles throughout the bed rather than only at the surface, giving high dirt-holding capacity, long filter runs, and low, stable pressure drop.

Etaniv sizes each filter for the required filtration rate and effluent turbidity, with an automated backwash sequence that periodically fluidizes the bed to flush out captured solids and restore capacity. Multimedia filtration is the workhorse pre-treatment stage protecting downstream RO membranes and ion exchange resins.

Key features

Key technical and commercial advantages:

- High dirt-holding capacity and long filter runs from graded depth filtration
- Low, stable pressure drop across the bed
- Effective turbidity and suspended-solids reduction
- Automated backwash restores capacity with minimal operator attention
- Protects and extends the life of downstream RO and ion exchange systems
- FRP or steel vessels sized to any flow rate

Typical applications

Typical application types include:

- Pre-treatment ahead of reverse osmosis and ion exchange systems
- Turbidity and suspended-solids removal from surface and well water
- Standalone clarification for process and cooling water
- Polishing of treated effluent prior to reuse

Technical specifications

Flow rate (m³/hr)	Tailored to project at any flow rate
Media	Graded anthracite / sand / garnet depth-filtration bed
Target contaminants	Turbidity and suspended solids
Filtration rate	Sized per required effluent quality and filter-run length
Backwash requirements	Automated periodic backwash to fluidize and clean the bed
Vessel dimensions	Sized per flow and filtration rate; FRP or steel vessels
Materials of construction	FRP, carbon steel or 316 stainless steel per duty
Operating pressure (bar)	Typical 2–6 bar; designed to site hydraulics
Temperature range (°C)	Effective across normal water-supply temperatures

Product photo



Why Etaniv

Etaniv B.Y. Ltd is an Israeli manufacturer and integrator of environmental technologies for water, wastewater, and odor control. We design, supply, install, and maintain our systems in-house — backed by 20+ years of field experience and international technology partnerships.

- Full lifecycle service — design, installation, and maintenance by one team
- Own manufacture — quality controlled from design to delivery
- Compliant with Israeli Drinking Water Standard
- Backed by international technology partnerships
- 50+ active clients across Israel

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