

*high purity ~ simple package ~ proven reliability*

# **Spectrum Micro Media Filter™**

By using a very fine polishing or “micro” media layer, the Spectrum Micro Media Filter™ improves filtration efficiency while maintaining lower capital and operating costs compared to conventional dual media filters. In addition to low operating costs, the Spectrum Micro Media Filter™ offers simple operation and a history of reliability.

## **Why Use the Spectrum Micro Media Filter™?**

- **High Purity:** The Spectrum Micro Media Filter™ provides filtered water quality of less than 0.1 NTU
- **Simple Package:** The Spectrum Micro Media Filter™'s flow per surface area is two times that of a conventional multi-media filter, resulting in higher productivity, smaller vessel requirement, and a reduction in capital and operating costs.
- **Proven Reliability:** The Spectrum Micro Media Filter™ outperforms conventional filtration and has proven to extend RO membrane life up to 5 years when used as a pre-filtration system ahead of the RO process.

## **How Does the Spectrum Micro Media Filter™ Work?**




The Spectrum Micro Media Filter™ operates similar to a conventional air-scourable multi-media filter, but differs by using two specific particulate media layers and a patented backwash process. This combination, specific to the Spectrum Micro Media Filter™, enables the production of excellent quality filtrate, from a simple package, with proven results.



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Features	Benefits
Robust: will filter raw feed water with a turbidity of up to 100 NTU	Produced filtrate quality of less than 0.1 NTU
Flexible: filters variable feed water sources with no breakthrough of solids	High purity filtration under various feed water TDS levels with an average particle size of less than 1 µm nominal and a filtrate silt density index of less than 5
Patented Backwash Process: performs only ONE column purge for up to 10 purges of a conventional filter	Reduction in operating costs with an increase in produced filtrate. More filtrate with less input and less cost.
Small Footprint: smaller filter vessel diameter than conventional multi-media filters	Lower capital costs, operating costs, and more efficient use of floor space

## Models

<b>Spectrum Micro Media Filter™</b>	Designed to filter raw feed water with turbidity up to 100 NTU	
<b>Spectrum Plus Micro Media Filter™</b>	Designed to filter water containing TSS up to 20 mg/L and total insoluble oil up to 20 mg/L	
<b>Spectrum Lite Micro Media Filter™</b>	Designed to filter raw feed water with a turbidity up to 20 NTU	

**Contact Eco-Tec For More Details.**

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