



# Back-washable Spiral Ultrafiltration Technology for Domestic & Industrial Water Purification

Ultrafiltration (UF) refers to separation of species through membranes on size exclusion principle. Back-washable Spiral Ultrafiltration Membrane Element can be used for purification of water by removing suspended/colloidal matters and biological contaminants. Single unit capacity varies from 1000-7000 LPD depending upon element sizes. It is modular in nature and can be deployed in multiple units for enhanced capacities.



## Salient features of Back-washable spiral UF technology

- Clear water free from turbidity, colloidal species and bio-contaminants.
- Compact and delivers stable output quality.
- Operating pressure of about 2-3 bar and back wash pressure up to 2.0 bar is required.
- Cross flow mode of operation is preferred for feed turbidity more than 10 NTU.
- Can be used for community/industrial applications.
- Can replace conventional filtration systems like sand filter and cartridge filter.
- Back washable in auto and/or manual mode.
- Approximate capital cost is Rs 6000 – 40000 depending upon size and capacity.
- O & M cost is approximately 1.0 Paise per liter
- Require about 2.0 m<sup>2</sup> of footprint area excluding storage tanks. Small units require less space.

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