

FilterClear®



A BLUEWATER BIO TECHNOLOGY

High Performance Multimedia Filtration

Main Applications

- Phosphorus removal in combination with dosing
- Desalination reverse osmosis pre-treatment
- Tertiary sewage filtration for reuse or compliance
- Industrial process, cooling, wastewater, reuse
- Potable water from surface or borehole
- Rainwater and greywater treatment



FilterClear Pre-filtration for Desalination
RO 4,800 m³/h Saudi Arabia.



FilterClear is a multimedia downflow depth filter providing excellent suspended solids removal and low back-wash volume.

Key Advantages

Proprietary stratified **FilterClear™** media of up to four layers, specially developed and applied over 10 years for exceptional performance:

- High quality filtrate in a single step
- SDI <3; NTU <0.1; BOD concentration <6mg/l
- Compact footprint (2-5x smaller filter area, smaller plant)
- Package plants for off-site assembly and simple, quick installation
- High loading rate (25-50 m³/m²/h, i.e. 2-5x flow rate of competing technologies)
- High solids retention (low pressure drop and long backwash interval)
- Low CAPEX (2-5x less media, fewer vessels)
- Low electricity consumption
- Low backwash volume
- Simple, reliable, easy to maintain

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FilterClear® is a pressure multimedia filter technology capable of removing suspended solids from a wide range of waters with a comparatively high performance, even at high filtration rates. There are over 50 **FilterClear®** installations, treating waters such as secondary effluent at wastewater treatment plants, cooling waters at industrial sites and seawater at desalination plants. Throughput ranges from 1.5 l/s up to 1500 l/s. Commercial applications include cooling and feed water filtration, RO pre-treatment and rainwater harvesting for various industries including pharmaceuticals, food and beverage, distilleries and communal buildings including flats, offices, hospitals and hotels.



FilterClear® technology competes cost-effectively with other multimedia filters, continuous filters, deep bed filters, disc filters and micro screens. It has a strong track record in conventional filtration applications and can replace ultrafiltration membranes upstream of RO membranes.

Proprietary Stratified Media of up to Four Layers



Our Clients Include

Scottish Water, Yorkshire Water, Anglian Water, Severn Trent Water, Northumbrian Water, United Utilities, Wessex Water, Southern Water, Welsh Water, Saudi Aramco, Diageo, Michelin, Oaklands Farm, Virgin, Museum of London.

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