

FilterClear™

High Performance Multimedia Filtration

Main Applications

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



Tertiary treatment
Bugbrooke STW, Anglian Water

FilterClear Pre-filtration for Reverse Osmosis Desalination
1,300 l/s, King Abdullah University, Saudi Arabia.



Key Advantages

Proprietary stratified FilterClear™ media of up to four layers, developed and applied over 40 years for exceptional performance

- Compact footprint
- Package plants, skid-mounted up to 52 l/s for off-site assembly and simple, quick installation
- Modular systems up to 350 l/s per vessel
- High quality filtrate in a single step
- Effective phosphorus removal
- Low OPEX (no chemical use, low electricity consumption)
- Simple automatic operation; low maintenance

FilterClear™



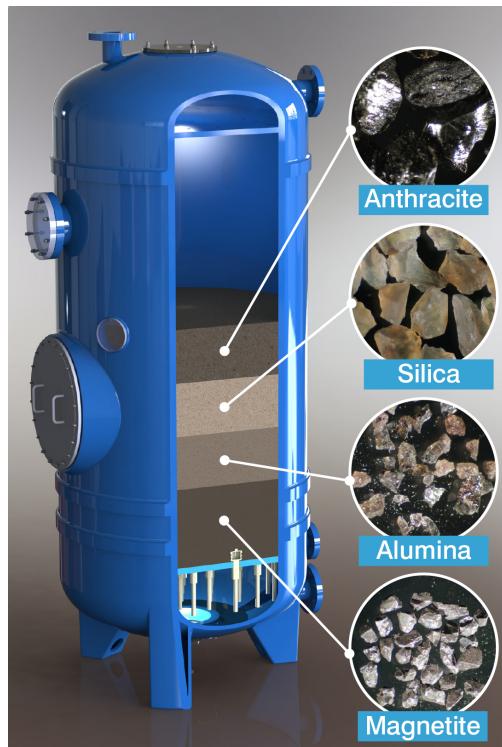
A BLUEWATER BIO TECHNOLOGY

www.bluewaterbio.com/filterclear

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



High Performance Multimedia Filtration



Comparison of Design Criteria

Parameter (unit)	FilterClear	Other
Maximum loading velocity (m/h)	>25	6 - 15
Run time (days)	1 - 2	0.5 - 1
Backwash volume (% of throughput)	1 - 6	4 - 8



Our Clients include

Scottish Water, Yorkshire Water, Anglian Water, Severn Trent Water, Northumbrian Water, Saudi Aramco, Diageo, Michelin, Oaklands Farm, Virgin, Museum of London

To find out more about FilterClear™ call:

Glasgow Office

Tel: +44 (0)141 776 2289

London Office

Winchester House,
259-269 Old Marylebone Road,
London, NW1 5RA

Tel: +44 (0)845 519 5800
Enquiries@bluewaterbio.com

