

FilterClear™



A BLUEWATER BIO TECHNOLOGY

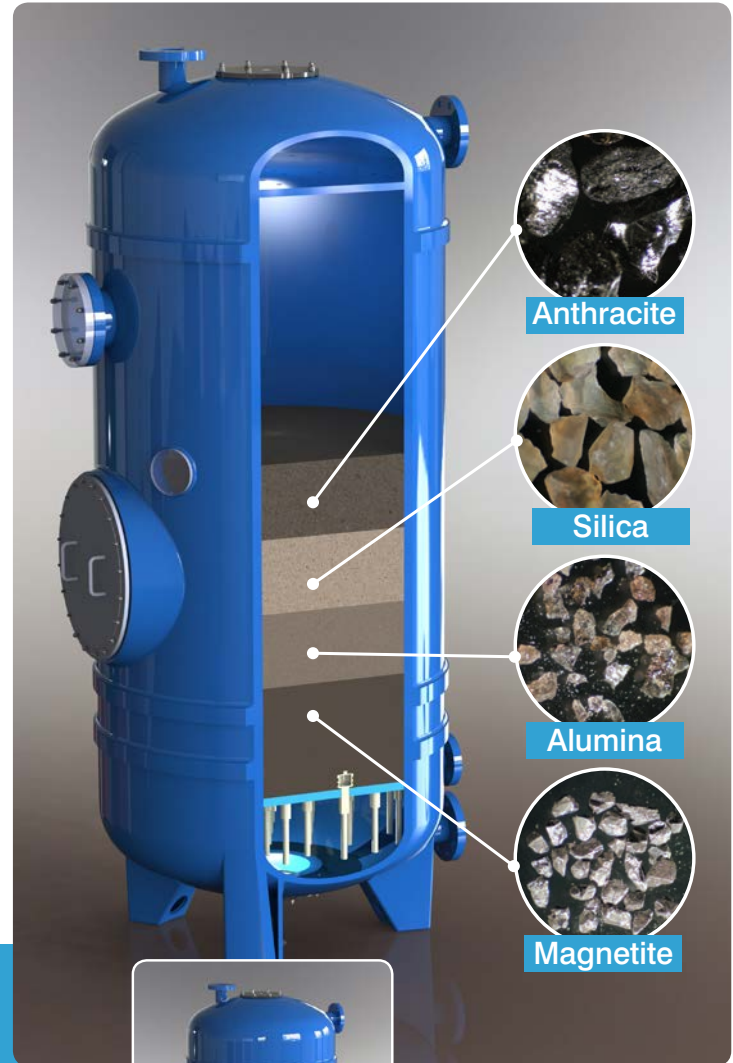
Key Features & Benefits

- Compact footprint
- Package plants, skid-mounted up to 350 l/s for off-site assembly and simple, quick installation
- Modular systems for longer flows
- High quality filtrate in a single step
- Low OPEX (no chemical use, low electricity consumption)
- Intelligent automation; low maintenance

FilterClear is a multimedia downflow depth filter providing excellent suspended solids removal and low back-wash volume. FilterClear competes cost-effectively with other multimedia filters, continuous filters, deep bed filters, disc filters and micro screens.

Main Applications

- 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
- Phosphorus removal in combination with dosing



FilterClear vs Competition

Feature	FilterClear	Rapid Gravity Sand Filter	Continuous Backwash Sand Filter	Disk Filter	Microfilter
Removes >75% of suspended solids	✓	✗	✗	✗	✓
Compact Footprint	✓	✗	✗	✓	✓
Low energy consumption	✓	✓	✗	✓	✗
Low capital cost	✓	✓	✓	✓	✗
Low backwash volume	✓	✗	✗	✗	✗
No chemicals required	✓	✓	✓	✓	✗

Standard Filter Range

Model	Typical Peak Flows	Backwash Volume	Vessel Diameter	No of vessels	Required Slab Dimensions			Weight	Power Rating	Panel Incomer (3ph 400V)
					Length	Width	Height			
FC 1v1010	5 - 7 l/s	8 m3	1,010 mm	1	6,000 mm	1,750 mm	3,200 mm	5,000 kg	8 kW	22 Amps
FC 1v1440	11 - 14 l/s	16 m3	1,440 mm	1	7,300 mm	2,400 mm	3,300 mm	9,000 kg	13 kW	31 Amps
FC 1v1840	18 - 24 l/s	27 m3	1,840 mm	1	7,300 mm	2,700 mm	3,300 mm	12,000 kg	26 kW	53 Amps
FC 1v2040	23 - 29 l/s	33 m3	2,040 mm	1	7,900 mm	2,900 mm	3,400 mm	15,000 kg	26 kW	53 Amps
FC 1v2340	30 - 38 l/s	43 m3	2,340 mm	1	8,800 mm	3,250 mm	3,550 mm	19,000 kg	26 kW	53 Amps
FC 1v2550	36 - 45 l/s	51 m3	2,550 mm	1	9,400 mm	3,500 mm	3,700 mm	22,000 kg	30 kW	59 Amps
FC 2v1010	11 - 14 l/s	8 m3	1,010 mm	2	8,000 mm	1,750 mm	3,200 mm	9,000 kg	8 kW	22 Amps
FC 2v1440	23 - 29 l/s	16 m3	1,440 mm	2	10,150 mm	2,400 mm	3,300 mm	15,000 kg	13 kW	31 Amps
FC 2v1840	27 - 47 l/s	27 m3	1,840 mm	2	10,150 mm	2,700 mm	3,300 mm	23,000 kg	26 kW	53 Amps
FC 2v2040	46 - 58 l/s	33 m3	2,040 mm	2	10,950 mm	2,900 mm	3,400 mm	27,000 kg	26 kW	53 Amps
FC 2v2340	60 - 77 l/s	43 m3	2,340 mm	2	12,150 mm	3,250 mm	3,550 mm	35,000 kg	26 kW	53 Amps
FC 2v2550	71 - 91 l/s	51 m3	2,550 mm	2	12,950 mm	3,500 mm	3,700 mm	41,000 kg	30 kW	59 Amps
FC 3v1010	17 - 22 l/s	8 m3	1,010 mm	3	10,000 mm	1,750 mm	3,200 mm	12,000 kg	8 kW	22 Amps
FC 3v1440	34 - 43 l/s	16 m3	1,440 mm	3	13,000 mm	2,400 mm	3,300 mm	22,000 kg	13 kW	31 Amps
FC 3v1840	55 - 71 l/s	27 m3	1,840 mm	3	13,000 mm	2,700 mm	3,300 mm	33,000 kg	26 kW	53 Amps
FC 3v2040	68 - 88 l/s	33 m3	2,040 mm	3	14,000 mm	2,900 mm	3,400 mm	40,000 kg	26 kW	53 Amps
FC 3v2340	90 - 115 l/s	43 m3	2,340 mm	3	15,500 mm	3,250 mm	3,550 mm	52,000 kg	26 kW	53 Amps
FC 3v2550	107 - 136 l/s	51 m3	2,550 mm	3	16,500 mm	3,500 mm	3,700 mm	62,000 kg	30 kW	59 Amps



Equipment Specifications

- GRP vessels BS EN 13121 with media
- Stainless steel pipework
- Duty standby backwash pumps
- Air scour blower
- Local control panel with HMI
- Kiosk or building
- Off-site testing and assembly

Interfaces

Connections:	Inlet, outlet, backwash inlet & outlet, drain.
Feed pump requirements	0 to 1.8bar

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