

FilterClear™



A BLUEWATER BIO TECHNOLOGY

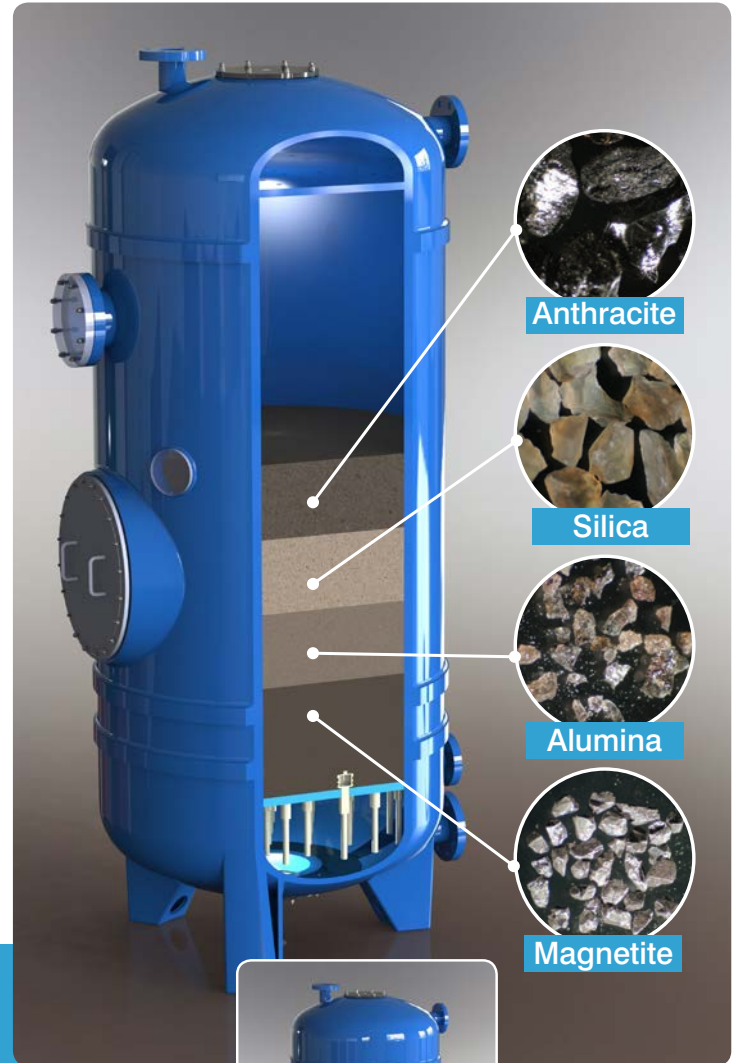
Key Features & Benefits

- 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	Power Supply (3ph 400V)
					Length	Width	Height			
FC 1v1010	5 - 7 l/s	8 m3	1010 mm	1	5.0 m	3.1 m	3.2 m	5 T	8 kW	22 Amps
FC 1v1440	11 - 14 l/s	16 m3	1440 mm	1	5.4 m	3.1 m	3.3 m	9 T	13 kW	31 Amps
FC 1v1840	18 - 24 l/s	27 m3	1840 mm	1	5.8 m	3.3 m	3.3 m	12 T	26 kW	53 Amps
FC 1v2040	23 - 29 l/s	33 m3	2040 mm	1	6.0 m	3.4 m	3.4 m	15 T	26 kW	53 Amps
FC 1v2340	30 - 38 l/s	43 m3	2340 mm	1	6.3 m	3.6 m	3.6 m	19 T	26 kW	53 Amps
FC 1v2550	36 - 45 l/s	51 m3	2550 mm	1	6.6 m	3.7 m	3.7 m	22 T	30 kW	59 Amps
FC 2v1010	11 - 14 l/s	8 m3	1010 mm	2	3.8 m	4.0 m	3.2 m	9 T	8 kW	22 Amps
FC 2v1440	23 - 29 l/s	16 m3	1440 mm	2	4.2 m	5.3 m	3.3 m	15 T	13 kW	31 Amps
FC 2v1840	27 - 47 l/s	27 m3	1840 mm	2	4.6 m	6.5 m	3.3 m	23 T	26 kW	53 Amps
FC 2v2040	46 - 58 l/s	33 m3	2040 mm	2	4.8 m	7.1 m	3.4 m	27 T	26 kW	53 Amps
FC 2v2340	60 - 77 l/s	43 m3	2340 mm	2	5.1 m	8.0 m	3.6 m	35 T	26 kW	53 Amps
FC 2v2550	71 - 91 l/s	51 m3	2550 mm	2	5.3 m	8.7 m	3.7 m	41 T	30 kW	59 Amps
FC 3v1010	17 - 22 l/s	8 m3	1010 mm	3	4.8 m	4.0 m	3.2 m	12 T	8 kW	22 Amps
FC 3v1440	34 - 43 l/s	16 m3	1440 mm	3	5.6 m	5.3 m	3.3 m	22 T	13 kW	31 Amps
FC 3v1840	55 - 71 l/s	27 m3	1840 mm	3	6.4 m	6.5 m	3.3 m	33 T	26 kW	53 Amps
FC 3v2040	68 - 88 l/s	33 m3	2040 mm	3	6.8 m	7.1 m	3.4 m	40 T	26 kW	53 Amps
FC 3v2340	90 - 115 l/s	43 m3	2340 mm	3	7.4 m	8.0 m	3.6 m	52 T	26 kW	53 Amps
FC 3v2550	107 - 136 l/s	51 m3	2550 mm	3	7.9 m	8.7 m	3.7 m	62 T	30 kW	59 Amps
FC 1h4000	270 - 350 l/s	276 m3	4,000 mm	1	12.0 m	10.0 m	4.5 m	160 T		N/A
FC 4h4000	1000 - 1400 l/s	276 m3	4,000 mm	4	30.0 m	10.0 m	4.5 m	650 T		N/A

Standard Filter Range - No Backwash Tank

FC 3v1010	17 - 22 l/s	8 m3	1010 mm	3	3.0 m	4.0 m	3.2 m	12 T	6 kW	11 Amps
FC 3v1440	34 - 43 l/s	16 m3	1440 mm	3	3.9 m	5.3 m	3.3 m	22 T	7 kW	16 Amps
FC 3v1840	55 - 71 l/s	27 m3	1840 mm	3	4.7 m	6.5 m	3.3 m	33 T	13 kW	27 Amps
FC 3v2040	68 - 88 l/s	33 m3	2040 mm	3	5.1 m	7.1 m	3.4 m	40 T	13 kW	27 Amps
FC 3v2340	90 - 115 l/s	43 m3	2340 mm	3	5.7 m	8.0 m	3.6 m	52 T	13 kW	27 Amps
FC 3v2550	107 - 136 l/s	51 m3	2550 mm	3	6.1 m	8.7 m	3.7 m	62 T	15 kW	30 Amps
FC 4h4000	1000 - 1400 l/s	276 m3	4,000 mm	4	30.0 m	10.0 m	4.5 m	650 T		N/A

Inclusions

- 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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