

FSA series

DUAL MEDIA FILTERS



Suspended Solids Removal

The **FSA** series of dual media filters are best solution for suspended solids removal from water, for domestic or industrial applications when typically small & medium flow rates are required. These filters are compact, robust, engineered for 24/7 usage, with limited space and low energy footprint . The control valve is time programmable and when the time set is reached, the backwashing starts in order to restore the filtration bed to its previous state. The **multiple layers of quartz sand** inside the filter are able to remove all particles bigger than 5microns from the treated water. The upper layer of the filtering bed consists of fine quality Anthracite which protects the rest of the filtering bed from clogging. All parts are NON-Toxic, suitable for potable water and for long term use. **FSA filters** are connected in series with your water network after any booster set, or before a reservoir tank.

The control valve is made of NSF listed NORYL® and the vessel from PE liner reinforced with fiberglass and epoxy resin for durability.

Features:

- ✓ Automatic or manual function!
- ✓ Programmable backwash!
- ✓ Programmable backwash phases!
- ✓ Safe! (12V)
- ✓ High degree of quality in compact size!
- ✓ Widely installed in well water supplies.

Applications:

- ◆ Industrial filtration.
- ◆ Well water filtration.
- ◆ R.O. pre-treatment.
- ◆ Rain water harvesting.
- ◆ Laboratories.
- ◆ Main supply filtration.

Characteristics:

- **Control valve:** glass reinforced Noryl®
- **Resin vessel:** PE fiberglass reinforced externally.
- **Pressure:** 1,72— 6,9bar
- **Water temp:** 1-36 °C.
- **Ambient temp:** 4-45 °C.
- **Service flow:** 0,6— 14m³/h
- **Voltage:** 230 AC to 12AC EU plug transformer.



CRYSTAL BLUE
www.brentas.eu

BRENTAS M
35, Nea Monastiriou str.
56334, Thessaloniki
Greece

Phone: +30 2310 559000
Fax: +30 2310 559003
e-mail: sales@brentas.gr



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- ◇ **Fully customizable controller** allows modifications and settings for total control thus allowing to get the maximum from the system in any installation condition. The internal memory is non volatile and a super-capacitor battery supplies the time of day setting.
- ◇ **The Valve** is a reliable hydraulic part of the filter that responds to controller's commands and carries out all automated phases of the backwash and service.
- ◇ **Fine grade media** delivers the best filtration quality while the flow rate is retained at the highest levels for the longest period before the next backwash cycle. The result is a high efficiency system, low water consumption and higher up-times, which is key factor in commercial or industrial applications.
- ◇ **Backwashing** is restoring the media to their original state, setting them able to receive new loads of dirt for filtration. The whole process is fully automated and programmable. Two phases of backwash are taking place in every automatic backwash (backwash and rinse) which allowing the FSA filter to be washed with same inlet water, without the need to find a clean resource just for the backwash.
- ◇ **The pressure vessel** contains all media inside and the valve with the controller on top. The mechanical characteristics of the vessel are high enough to sustain the weight of the sand and water pressure up to 10bar.

MODEL	Diameter	Height	F _{low} (service)*	F _{low} (max)	F _{low} (backwash)	S _{and} (2-3)+(1-2)+(0,4-0,8)	A _{nthracite} (1-2)	C _{onnections}	W _{eight}
Units	mm (in)	mm (in)	m ³ /h	m ³ /h	m ³ /h	Kg	Kg	in	Kg
FSA 0.7	220 (8)	1.337 (53)	0,7	1,4	1,0	5+6+20	5	1"	46
FSA 0.9	240 (9)	1.350 (57)	0,9	1,7	1,3	7+10+30	7	1"	67
FSA 1.0	269 (10)	1.598 (63)	1,0	2,1	1,6	10+12+40	10	1"	90
FSA 1.8	330 (13)	1.584 (65)	1,75	3,5	2,6	15+20+60	15	1"	135
FSA 2.6	420 (16)	1.922 (75)	2,6	5,2	3,9	25+50+75	25	1"	216
FSA 3.5	510 (18)	2.016 (79)	3,5	6,9	5,2	25+50+150	25	1,5"	324
FSA 4.8	552 (21)	1.915 (75)	4,8	9,6	7,2	35+60+160	35	1,5"	361
FSA 5.8	610 (24)	2.160 (85)	5,8	11,7	8,8	50+75+175	50	1,5"	443
FSA 9.3	770 (30)	2.340 (92)	9,3	18,6	13,8	75+125+250	75	2"	681
FSA 14	938 (36)	2.440 (96)	14	22	17,8	150+200+750	150	2"	1.514

*Service flow is calculated for 20m³/h/m² linear flow.

Includes:

- * Inlet, outlet and drain connections.
- * Wall power Supply 220/12V 3W
- * Instruction manual.

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