

FCA series

AUTOMATIC ACTIVE CARBON FILTERS



Dechlorination of Water!

The **FCA** series of automatic active carbon filters are the best solution for dechlorination of 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 media filter includes a layer of selected quartz-sand spheroidal shape and a layer of active carbon. The active carbon is granular type, with different grain-size and selected for water treatment, with high capacity in mechanical filtration, chemical (reduction) and chemical-physical (adsorption) actions. A special by-pass built-in the control valve warrants the feeding of untreated water even during regeneration cycle. All parts are NON-Toxic, suitable for potable water and for long term use. **FCA 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.
- ◆ Laboratories.
- ◆ Main supply filtration.
- ◆ C.O.D. reduction.

Characteristics:

- **Control valve:** glass reinforced Noryl®
- **Media vessel:** PE fiberglass reinforced externally.
- **Pressure:** 1,72— 6,9bar
- **Water temp:** 1-36 °C.
- **Ambient temp:** 4-45 °C.
- **Service flow:** 0,5— 10,5m³/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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ask for a quotation
via email.



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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 supply's 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.
- ◇ **The media filter** consists of one or more different types of active carbon depending on the application of the filter and the quality of the untreated water.
- ◇ **Backwashing** is restoring the media to their original state, setting them able to receive new loads of chlorine 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 FCA 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 the active carbon and water pressure up to 10bar.

MODEL	Diameter	Height	F _{low} (service)*	F _{low} (backwash)	F _{low} (contact 3min)	S _{and} (2-3 mm)	C _{arbon} (1-2 mm)	C _{onnections}	W _{eight} *
Units	mm (in)	mm (in)	m ³ /h	m ³ /h	m ³ /h	Kg	Kg	in	Kg
FCA 0.6	220 (8)	1.337 (54)	0,5	1,0	0,5	4	12	1"	30
FCA 0.9	240 (9)	1.441 (57)	0,6	1,3	0,6	5	16	1"	39
FCA 1.2	269 (10)	1.598 (63)	0,8	1,6	0,8	7	22	1"	54
FCA 2.0	330 (13)	1.584 (63)	1,3	2,6	1,3	12	36	1"	87
FCA 2.0	330 (13)	1.584 (63)	1,3	2,6	1,3	12	36	1"	92
FCA 3.3	420 (16)	1.922 (76)	1,9	3,9	2,2	19	60	1"	144
FCA 4.8	510 (18)	2.016 (80)	2,6	5,2	3,2	29	88	1,5"	225
FCA 6.0	510 (21)	1.915 (75)	3,6	7,2	4,0	35	110	1,5"	261
FCA 8.7	510 (24)	2.160 (85)	4,4	8,8	5,8	51	159	1,5"	377
FCA 13.7	730 (30)	2.340 (92)	7,0	14,0	9,2	81	251	2"	605
FCA 19.7	730 (36)	2.440 (96)	10,4	20,7	13,1	117	361	2"	860

*Service flow is calculated for 15m³/h/m² linear flow.

Includes:

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

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