

## Sand media filters battery BX series



**APPLICATIONS:** Industrial, municipal, agricultural activities

**USAGE:** In cases that the requested flow is larger than the capacity of a single X series tank, there is a capability of a parallel or in series pattern of X series filters. Its battery system consists of X series tanks, collectors, 3-way valves, hydraulic equipment and an automation programmer.

**OPERATION:** The water is filtered as it passes through a uniform porous media (i.e., granulated silica sand) from top to bottom. Particulate matter is entrapped between the pores of the media where is flushed out by reversing the flow. Backwash flow fluidizes the media and removes the accumulated particles. The operation of this system sand media battery takes place only automatically (AC/DC). Its filter is cleaned individually with clean water from the exit collector. The cleaning process takes place with a differential pressure or on chosen temporal periods.

### Materials

**BODY:** Steel S235JR (also available in stainless steel AISI 304 & 316, upon request)

**MEDIA:** Quartz gravel, Silica sand

**GASKETS:** EPDM

**SURFACE TREATMENT:** Chemical cleaning (pickling, phosphate) and electrostatic painting with polyester powder (available epoxy coatings suitable for drinking water).

CODE	BX-20-201	BX-20-301	BX-24-201	BX-24-301	BX-36-201	BX-36-301
IN-OUT	DN 80	DN 100	DN 80	DN 100	DN 100	DN 150
MEDIA + SCREEN FILTERS	X 20''+ O3''	X 20''+ O4''	X 24''+ O3''	X 24''+ O4''	X 36''+ O4''	X 36''+ O6''
NUMBER OF UNITS	2+1	3+1	2+1	3+1	2+1	3+1
NOMINAL FLOW (m <sup>3</sup> /h)	30	40	45	65	80	150
RIVER / DAM (m <sup>3</sup> /h)	16	24	22	34	52	78
CANAL (m <sup>3</sup> /h)	12	18	17	25	39	59
WASTEWATER (m <sup>3</sup> /h)	8	12	11	17	26	39

CODE	BX-36-401	BX-36-501	BX-48-201	BX-48-301	BX-48-401	BX-48-501
IN-OUT	DN 150	DN 150	DN 150	DN 150	DN 200	DN 200
MEDIA + SCREEN FILTERS	X 36''+ O6''	X 36''+ O6''	X 48''+ O6''	X 48''+ O6''	X 48''+ O6''	X 48''+ O6''
NUMBER OF UNITS	4+2	5+2	2+1	3+2	4+2	5+3
NOMINAL FLOW (m <sup>3</sup> /h)	200	250	140	210	270	330
RIVER / DAM (m <sup>3</sup> /h)	104	130	92	138	184	230
CANAL (m <sup>3</sup> /h)	78	98	69	104	138	173
WASTEWATER (m <sup>3</sup> /h)	52	65	46	69	92	115

MEDIA TYPE		Crushed Silica 1.2-2.4	Crushed Silica 0.4-0.8
MEAN EFFECTIVE SIZE (mm)		1.2	0.5
UNIFORMITY COEFFICIENCY		1.5	1.43
FILTRATION QUALITY	MESH	130-140	200-230
	MICRON	150	75

Ask one of the Drop Team for more information!