



## Alfa Laval Iso-Disc® cloth media filter

High quality cloth media filtration for municipal and industrial applications



Alfa Laval Iso-Disc® cloth media filter is engineered as a continuous operating process that utilizes fixed cloth media and a dynamic, linear backflush system controlled by a PLC or relay control panel. All submerged components are corrosion resistant stainless steel or non-metallic materials.

### Applications:

- Tertiary filtration
- Water reuse
- Process streams
- Surface water treatment

### Benefits

- Efficient robust design
- Reuse quality filtrate
- Outside-in depth filtration
- Small footprint to flow ratio
- Easily expanded
- Low backwash rates
- High solids and hydraulic loading capacities
- Uninterrupted flow during backwash cycle
- Individual filter cell monitoring

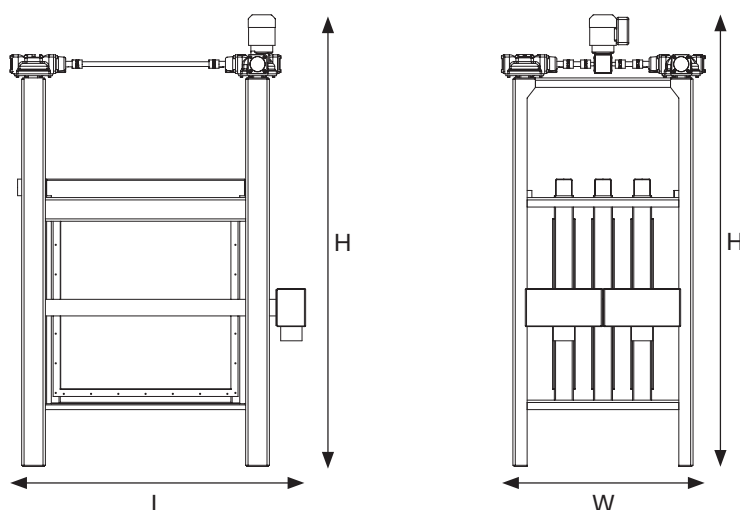
## Features

Use of the fixed cloth media design reduces overall horsepower requirements and permits removal of each individual filter cell while the filter remains in operation. During backflush, the cloth filter media remains fixed, while the horizontal linear backflush mechanism moves vertically, sucking away solids which have collected in the cloth media. At the beginning of the backwash cycle, which is initiated by headloss across the filter, electrically actuated valves segregate the backwash header and clean the cloth media on that portion of the header. This insures complete cleaning of the filter cloth while minimizing the rate at which backwash water is returned to the treatment facility.

Performance of the Alfa Laval Iso-Disc cloth media filter is second to none. The cloth is capable of solids capture down to 10 micron, with the high solids capacity of outside-in depth

filtration, without having to build up a filter mat or require any run-in time. The two-layer cloth allows for complete cleaning, utilizing filtered water from inside the filter cell. The filter cloth can be replaced while the filter continues to function without interruption.

Alfa Laval Iso-Disc cloth media filter can be installed into a concrete structure, carbon steel tank with coating, or a stainless steel tank. Alfa Laval Iso-Disc has a unique advantage incorporated into its design that allows filtrate sampling from each filter cell individually, as well as being able to remove each filter cell from the system without filter shut-down. The Alfa Laval Iso-Disc design also eliminates rotating seals: ensuring filtrate quality; guaranteeing no cross-connection between influent and filtrate; and reduced maintenance.



Model	Length	Width	Height
Typical example	1321 mm (52")	965 mm (38")	2,413 mm (95")

## Standard filter cell sizes and flow capacities

### Filter cell dimensions

Square model	Flow capacity at typical daily flow flux	
0.6 m x 0.6 m (24" x 24")	142 m <sup>3</sup> /day/cell	(5,015 ft <sup>3</sup> /day/cell)
0.9 m x 0.9 m (35" x 35")	319 m <sup>3</sup> /day/cell	(11,265 ft <sup>3</sup> /day/cell)
1.5 m x 1.5 m (59" x 59")	885 m <sup>3</sup> /day/cell	(31,253 ft <sup>3</sup> /day/cell)

Rectangular model (height x width)	Flow capacity at typical daily flow flux	
0.9 m x 2.4 m (35" x 95")	850 m <sup>3</sup> /day/cell	(30,017 ft <sup>3</sup> /day/cell)
1.2 m x 2.4 m (47" x 95")	1,133 m <sup>3</sup> /day/cell	40,012 ft <sup>3</sup> /day/cell)
1.5 m x 2.4 m (59" x 95")	1,416 m <sup>3</sup> /day/cell	(50,006 ft <sup>3</sup> /day/cell)
1.8 m x 2.4 m (71" x 95")	1,700 m <sup>3</sup> /day/cell	(60,035 ft <sup>3</sup> /day/cell)

Custom size filter cell: Filter cell size can be designed to accommodate any existing concrete basin or hydraulic profile.  
Number of filter cells per filter: 2 – 9 (depending on flow rate and filter cell size)

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Alfa Laval reserves the right to change specifications without prior notification.

## How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at [www.alfalaval.com](http://www.alfalaval.com)