

# PAPER BELT FILTER (10-150 m<sup>3</sup>/h)

for filtering water streams



## Water treatment

### **Description**

Paper belt filters can be used for various liquid flows in your greenhouse. Moor Filbertechniek supplies a specially selected line of products for greenhouse and other horticultural uses, divided into belt filters for low-flow (3 to 10 m<sup>3</sup>/h) and high-flow (10 to 150 m<sup>3</sup>/h) use. Moor Filbertechniek's paper belt filters are compact stainless-steel (304) models, complete with stainlesssteel reservoir, pumps and switch box.

A belt filter is suitable for various purposes, such as:

- o discharge water from a sand filter
- o filtration of drain water
- o filtration of basin water
- o filtration of water from flood and drain (hydroponic) systems
- o pre-filtration for UV filters

### **Types of belt filtration**

A belt filter is also called a fleece filter or paper belt filter. A special kind of belt filter has been developed for discharge flows higher than 10 m<sup>3</sup>/h, the hydrostatic filter. This belt filter can be used for highly-contaminated and/or high-volume drainage flows.

A filter medium, also called filter paper or filter cloth, is used for the filtration. The filter cloth is usually a nonwoven material, and sometimes a textile filter material for special applications. The filter micron rating is about 15 to 50 microns. The medium is supplied on a roll with a length of about 100 metres. The width depends on the type of belt filter.

We will be pleased to advise you on the best type of belt filter and filter cloth for your specific application.



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## Operation

The hydrostatic belt filter works in a very simple way. The filter fabric is stretched over a mesh mat under two rollers. Water is guided across the filter fabric. Any dirt particles larger than the pores in the filter fabric, will be trapped. After some time, the fabric will become clogged, causing the permeability to decrease and the water level to rise above the fabric. A float ensures that a trolley motor is switched on, providing the paper belt filter with new filter fabric and transporting the dirty filter fabric to the waste container.

## Maintenance

A belt filter is low-maintenance due to its simple design. The filter fabric only needs to be replaced periodically.

## Hydro belt filter

MODEL		MAX. FLOW (m <sup>3</sup> /h)	WIDTH OF FILTER FABRIC
HYDRO	50.50	15 m <sup>3</sup>	500 mm
HYDRO	50.100	30 m <sup>3</sup>	1.000 mm
HYDRO	75.100	50 m <sup>3</sup>	1.000 mm
HYDRO	75.150	80 m <sup>3</sup>	1.500 mm
HYDRO	100.150	100 m <sup>3</sup>	1.500 mm
HYDRO	150.150	150 m <sup>3</sup>	1.500 mm

