

PAPER BELT FILTER

(3-10 m³/h)

for filtering water streams



Water treatment

Description

Paper belt filters can be used for various liquid flows in your greenhouse. Van der Ende Group supplies a specially selected line of products for greenhouse and other horticultural uses, divided into belt filters for low-flow (3 to 10 m³/h) and high-flow (10 to 150 m³/h) use. Van der Ende Group's paper belt filters are compact stainless-steel (304) models, complete with stainless-steel 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 band filtration

A belt filter is also called a fleece filter or paper belt filter. Two different types of belt filters with a capacity of up to 10 m³/h have been selected. The flat-bed filters, used for heavy contamination and/or low flow rates, and the deep-bed filters, used for heavy, light contamination and/or higher flow rates.

A filter fabric, also called filter paper or filter medium, is used for the filtration. The filter fabric 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 filter fabric 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 fabric for your specific application.

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Operation

The belt filter works in a very simple way. 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.

Deep bed filter

MODEL		MAX. FLOW (m ³ /h)	WIDTH OF FILTER FABRIC
EVO	300	3 m ³	300 mm
EVO	500	6 m ³	500 mm
EVO	700	10 m ³	700 mm

Flat-bed filter

MODEL		MAX. FLOW (m ³ /h)	WIDTH OF FILTER FABRIC
EASY	50	3 m ³	500 mm
EASY	100	6 m ³	700 mm
EASY	150	9 m ³	1.000 mm
EASY	200	12 m ³	1.000 mm
EASY	250	15 m ³	1.000 mm

