PAPER BELT FILTER

for filtering water streams (3-15 m³/h)



Cloth filter Coolant filtration Water treatment

Description

Paper belt filters are widely applicable in various water flows, both in greenhouse horticulture and for process water in industrial applications. Van der Ende Group has put together a specially selected product line for this purpose.

The paper belt filters are compactly designed in stainless steel (304) and are available as a complete system, including a reservoir, pumps, and control panel. Thanks to their simple and reliable design, paper belt filters offer a practical solution for the automatic removal of solid contaminants from water flows.

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

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

Types of band filtration

Van der Ende Group supplies two types of paper belt filters for capacities ranging from 3 to 15 m³/h. Depending on the application and the nature of the contamination, you can choose between a flat-bed filter or a deep-bed filter. Flat-bed filters are particularly suitable for coarse contaminants and smaller flow rates, while deep-bed filters are better suited for light, fine contaminants and larger flow rates within this capacity range.

Filtration is achieved using a filter cloth, also known as a filter medium. This filter cloth is typically made of nonwoven material and is available in various filtration grades ranging from approximately 15 to 50 microns. The filter medium is supplied in rolls of approximately 100 meters. The width of the filter cloth depends on the type of paper belt filter.

For higher capacities, Van der Ende Group also supplies paper belt filters. For this, we would like to refer you to the ECO cloth filter. In addition, we would be happy to advise you on the right paper belt filter for your application.

PAPER BELT FILTER (3-15 m³/h)

Operation

The operation of a paper belt filter is simple and reliable. The contaminated water is passed over a filter cloth, where contaminants larger than the pores of the filter cloth remain on the cloth.
Over time, the filter cloth becomes saturated, reducing water permeability and causing the water level to rise. A float switch then automatically activates the transport motor, after which new filter cloth is fed in and the contaminated filter cloth is wound up.

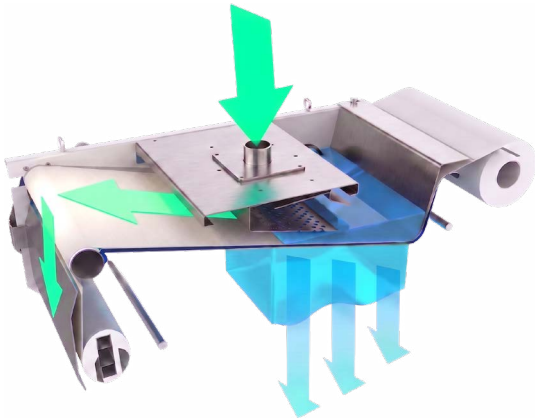
This ensures that the filtration process continues to operate fully automatically.

Maintenance

Thanks to its simple operating principle, a paper belt filter is low-maintenance. The filter cloth 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

