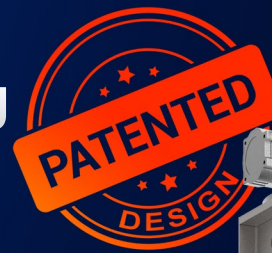


# Filternox®

www.filternox.com

## Pond water filtration for agricultural irrigation

Filternox® Automatic Self-Cleaning  
SPT-SBV-MR



**VIDEO**

<https://youtu.be/-I9b-p77IPM>





*Picture 1: The pond where the gathered water is kept*



- + A 322-acre (138-hectare) cherry and pomegranate orchard is irrigated using a drip system.
- + The water accumulated in the pond used to be directed to an outdated filtration system that consisted of 2 submersible pumps and 10 sand and disc filters. However, due to the frequent backflushing of the sand filters and the system's inability to perform proper filtration, it failed to clean the water adequately before it was sent to the irrigation drip system.
- + During the summer months when temperatures increase, algal blooms and other biological factors can cause frequent backflushing of the sand filters which in turn can create crevices and cracks in the filter media, hindering proper filtration and ultimately leading to clogging of irrigation lines.
- + When we were consulted to propose a solution for these problems, we recommended our new generation filters and more specifically our internationally patented filter model Filternox® Automatic Self-Cleaning SPT-SBV-MR.



+ Our Filternox® Automatic Self-Cleaning SPT-SBV-MR patented filter model has delivered solutions for similar agricultural irrigation systems in Turkey, France, United Arab Emirates, Saudi Arabia, Spain, Italy, Serbia, Chile, Cuba and many other countries.

*Picture 2: Filternox® Automatic Self-Cleaning SPT-SBV-MR Filter Model*



+ These filters perform functions that sand filters cannot accomplish. They smoothly and reliably provide the desired solution to the problem, with significant advantages. A comparison chart and these advantages can be found on the next page.



<https://www.filternox.com/filters/spt-wbv-mr/>

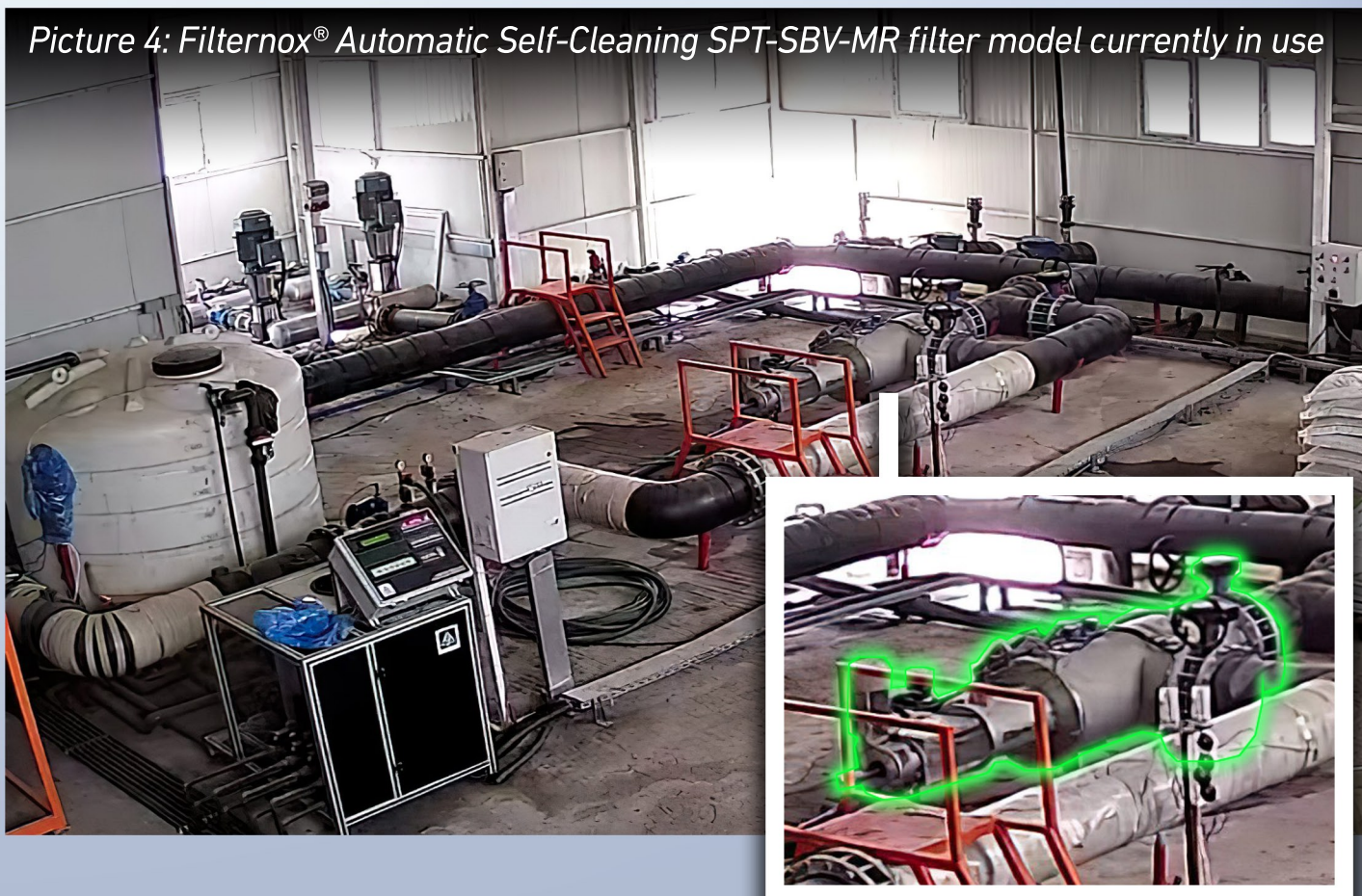




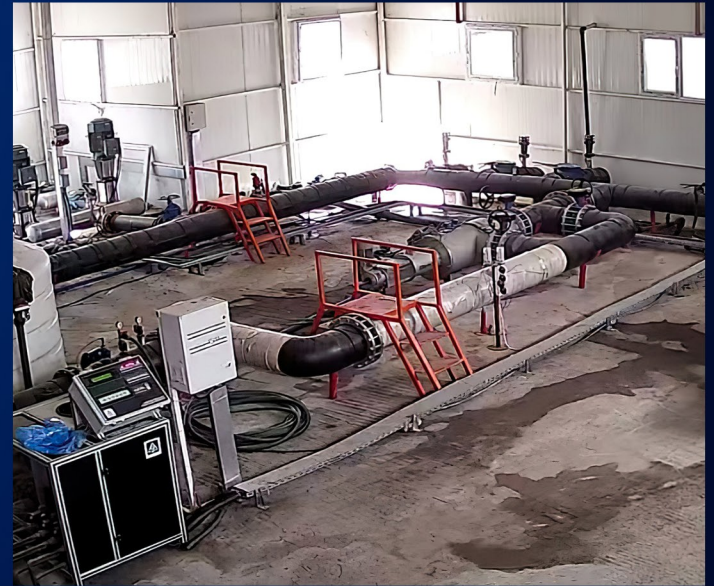
*Picture 3: Former sand & disc filters*



*Picture 4: Filternox® Automatic Self-Cleaning SPT-SBV-MR filter model currently in use*







## Sand Filters

- The desired objective cannot be achieved with this equipment.
- The footprint was significantly larger.
- The shipping cost is high.
- Excessive water drained during backflushing represents a waste of water.
- Excessive energy consumption increased operating costs.
- It has an epoxy painted, carbon steel body.
- Outdated technology.

## Filternox® Automatic Self-Cleaning SPT-SBV-MR Model Filter

- It works smoothly and provides the desired solution to the process.
- It takes up 1/50 of the sand filters' space.
- The shipping cost is comparatively low.
- With less water drained during backflushing, it helps save water.
- It saves operating costs by consuming 25 times less energy.
- It has a longer operational life thanks to its AISI 304L stainless steel body.
- New technology.

*Picture 5: Filternox® Automatic Self-Cleaning SPT-SBV-MR model filter installation*



+ The SPT-SBV-MR model is one of our latest generation filter developments and it is internationally patented. It has a combined, double-stage cleaning mechanism with brushes and vacuum nozzles and two separate drainage valves on its body. Its specific technology allows the filtration of both coarse and fine particle pollutants in a single chamber.

+ Filternox® Automatic Self-Cleaning SPT-SBV-MR filters provide exceptional performance and offer a permanent and definitive solution for applications with fluctuating, high levels of contamination.



<https://www.filternox.com/filters/spt-wbv-mr/>





The technical details of the Filternox® Automatic Self-Cleaning SPT-SBV-MR filter for this application are shown in the table below.

<b>Filter Model</b>	<b><i>SPT-SBV-MR</i></b>
<b>Filtration Level</b>	130 micron
<b>Operating Pressure</b>	2,5 - 3 bar
<b>Flow Rate</b>	500 m <sup>3</sup> /h
<b>Filter Body Material</b>	AISI 304L
<b>Filter Element Material</b>	AISI 316L
<b>Total Irrigation Area</b>	322 acres (138 hectares)
<b>Control System</b>	PLC Control System & HMI Touch screen

*Picture 6-7: Filternox® Automatic Self-Cleaning SPT-SBV-MR Model Filter*



<https://www.filternox.com/filters/spt-wbv-mr/>





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*Thank you*

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