



Less Blue More Green

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Filtration Solutions

Capture H2O, Inc. has partnered with H2trOnics and Neptune Benson Vortisand to provide a selection of high performance filtration solutions to our customers in the HVAC market. By utilizing our team's experience as system integrators for the water treatment industry, we are able to offer our customers a choice between the standard Neptune Benson Vortisand product offerings and the unique H2trOnics Vortisand products.

Neptune Benson Vortisand Filtration

Vortisand is a high performance automatic backwashable sand filter filtering down to 0.45 micron, 10 to 20 times finer than other media filters. Vortisand combines sand filtration with crossflow continuous cleaning in the same vessel. The technology was designed for various applications such as HVAC water, process water, rain-harvesting water and more.

The Vortisand technology uses a tangential inlet to introduce water in the filter vessel with a kinetic energy that creates a unique swirling action. Using this vortex effect to provide a crossflow filtration condition, the Vortisand allows the water to flow parallel to the top layer, producing a sustained cleaning action that forces the suspended solids to accumulate on the inside wall of the vessel and in water above the media. As a result, microsand can be used to filter out the fine particles without clogging rapidly. Thus, contaminants are trapped above the sand and are easily removed using an automatic backwash cycle, which requires less water and a shorter backwash sequence than traditional sand or multimedia filters. The end result is a technology that can remove down to sub-micron levels at 4 to 5 times the flow water of other media filters, while requiring 80 to 90 percent less water for backwash.



Custom Filtration Solutions

For customers who are looking for something a little more unique, we also offer integrated systems that combine CaptureH2O controls technologies with Neptune Benson filtration solutions. Contact us today to see how we can create a custom solution for you.

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