New water filtration systems recently installed at the U.S. National Whitewater Center
Background

The U.S. National Whitewater Center (USNWC) is a state-of-the-art athletic facility unique in the USA, and is an official Olympic training center for the U.S. whitewater kayak and canoe slalom teams. With its 1,300 acres on the Catawba River, the center’s primary feature is the world’s largest and most complex recirculating artificial whitewater river.

Since its inauguration in 2006, the US National whitewater has been promoting access to the outdoors for all levels of participants through its 30+ land and water-based activities, festivals, races, films, and various outdoor events throughout the year.

The Challenge

As part of the continuous maintenance improvement plan, the Amiad Superflow Galaxy water filtration system that has successfully operated over the past 14 years needed to be replaced, while fitting into the existing installation area and not increasing the system’s footprint.

Replace old system
Solution must fit into available area
Low maintenance
The Solution

Amiad USA designed a new Super Galaxy Spin-Klin™ disc filtration system capable of handling the 9,500 gpm (2,160 m³/h) side stream of the entire water site at the filtration degree of 130 micron. Amiad’s Spin-Klin™ disc technology has multi-pass discs that are diagonally grooved from both sides in opposite directions to create a matrix of consecutive crossing points which form multiple particle traps. This technology, combined with the polymeric construction of the filter to ensure resistance to additives used, offers the best performance for this application to maintain optimal water characteristics.

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<th>The Solution at a Glance</th>
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<td>Flow rate</td>
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<td>9,500 gpm (2,160 m³/h)</td>
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The Results

The consistent performance and reliability of the old system were the main factors that convinced the USNWC operation management to choose Amiad once again. The Super Galaxy system will continue to successfully handle the 9,500 gpm (2,160 m³/h) flow rate.
Interested in learning more about our filtration solutions?

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