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Removal of Trace Pharmaceuticals and Endocrine Inhibitors Using Disruptor® PAC Technology

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An Associated Press investigation shows "A vast array of pharmaceuticals - including antibiotics, anticonvulsants, mood stabilizers and sex hormones - have been found in the drinking water supplies of at least 41 million Americans". Contamination of our water by these compounds is of great concern for the overall health and proper development of all forms of life on the planet. Finding effective methods of removing these compounds from waste and potable water is a significant challenge for existing filtration technology. Preliminary test data from a study by a major US university indicates that Ahlstrom's Disruptor® PAC, electroadsorptive technology containing powdered activated carbon, can remove trace amounts of antibiotic from water at high flow rates and very low pressure drop. Additional work is underway to demonstrate the removal of selected families of trace pharmaceuticals, endocrine inhibitors including nonylphenols. This paper will present new data showing the removal efficiency and loading capacity of these compounds.

Bio

Mr. Cousart is the Technology Manager for Specialty Filtration at Ahlstrom Filtration, LLC in Mt. Holly Springs, Pennsylvania. He holds a BS in Chemical Engineering from The Pennsylvania State University and an MA in Administration and Leadership from the State University of New York. He is a 25 year veteran of the paper industry, has several publications, and has developed numerous products you see on a daily basis.

Mr. Haomin is a PhD student at The University of California, Irvine.

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