

Alteon UF membrane gets Chinese showcase

The Chinese city of Nantong in Jiangsu province north of Shanghai, has decided to equip its new drinking water treatment plant with ultrafiltration (UF) technology.

This is a major contract for Alteon™, the new hydrophilic polysulfone membrane, which can also be used for desalination pretreatment, developed by Aquasource, a divison of Degrémont-Technologies.

The 10,000 m³/d plant, equipped with modules with a surface area of 93 m², will be able to treat settled water from the Yangtze River. It will be designed and executed in partnership with the Wuxi Municipal Design Institute and the local purification equipment manufacturer SPE.

Aquasource claims that Alteon modules currently offer the largest filtration surface area available on the world market. The company was selected based on its new UF product, Rack Alteon for large plants.

Rack Alteon enables local partners to manufacture the technology from standard components. It comes with supporting tools for the design and the Rack concept, and a technical training program.

The Alteon membrane is an in/out hollow-fiber membrane, available in a wide range of modules, from 7 to 150 m² of unitary filtration area.

The membrane offers high efficiency to treat:

- Surface water
- Process water
- Recycling (municipal and industrial)
- Sea water desalination (reverse-osmosis pretreatment)

Alteon has one of the lowest cut-off values on the market and will filter all particles larger than 0.02 micron: pollen, algae, parasites, bacteria, viruses, germ and large organic molecules. The result is removal of bacteria and cysts (>6 log), viruses (>2 to 3 log) and a turbidity lower than 0.1 NFU.

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