Atlantium
Illuminating Water Technologies

NEWS BRIEF

UV Water Treatment
Hydro-Optic™ Technology

Atlantium's Hydro-Optic™ UV Technology Continues to Protect Water Treatment Processes at PepsiCo Domodedovo Plant in Russia

Atlantium's innovative Hydro-Optic™ UV technology continues to improve water treatment processes at PepsiCo bottling plant in Domodedovo, Russia.

PepsiCo Domodedovo opened in 2009 and remains one of the largest PepsiCo plants globally. The plant has implemented a variety of water and energy saving technologies to protect product safety across its three bottling lines.

Under the direction of engineering company, KST-Water, Atlantium's novel HOD UV technology replaced existing Atlantium UV systems, which have been in operation for more than 10 years at the plant. The old UV systems had been successfully providing complete microbial disinfection of the product water before passing through RO membranes and ensuring complete ozone destruction even with high concentrations of ozone coupled with very high flow rates. The new HOD UV disinfection systems treat a maximum flow rate capacity of 300 m^3/h and the ozone destruction systems treat 200 m^3/h. The HOD UV provides process control and water safety without the use of chemicals; as a result, there is no residual taste or odor to affect product flavor.

The new HOD UV systems are over 50% more energy efficient and proven for beverage production applications. The systems inhibit biofilm growth on membranes, greatly extending membrane life, allowing for increased reliability, ease of operation, and reducing maintenance and operating costs.

Atlantium's HOD UV solution is field proven globally and validated to the highest regulatory standards including EPA, FDA and PMO. With accredited validation for 4-log virus and 5-log microbial inactivation, HOD UV provides effective disinfection and biofouling control through automated operation and compliance reporting.

HOD™ UV provides product water disinfection and ozone destruction, reduces maintenance and operating costs at PepsiCo Domodedovo, Russia.

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