



For Immediate Release

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## **Severn Trent De Nora Enters into Exclusive Global Licensing Agreement with The Vinson Gavrel Group to use its Patented Electrocoagulation Reactor in OMNIPURE™ Series 55 Marine Sanitation Systems**

**FORT WASHINGTON, Pa. – January 25, 2010 –** [Severn Trent De Nora](#) has entered into an exclusive licensing agreement with The Vinson Gavrel Group to use the company's patented Ecolotron electrocoagulation (EC) reactor in the [OMNIPURE™ Series 55](#) marine sanitation system design. The OMNIPURE Series 55 systems produce a sodium hypochlorite disinfection solution from seawater in the presence of sewage to effectively treat all sewage. Accommodating treatment capacities up to 598 persons for black water and up to 197 persons for black and gray water, the OMNIPURE Series 55 systems range in capacity up to 65 m<sup>3</sup>/day (17,000 gal/day) as individual units that can also be combined for increased capacity.

The OMNIPURE Series 55 system uses an automatic three-stage process to provide effective electrolytic treatment of black and gray water in accordance with MEPC.159(55) effluent standards and performance tests for sewage treatment plants across a variety of offshore and marine installations. Wastewater leaves the first treatment stage and enters the second stage, which comprises the [EC reactor](#), gas-liquid separator and solids-liquid separation tank. Integrating the Ecolotron EC reactor, which operates under pressure, simplifies the OMNIPURE Series 55 treatment process. The EC reactor allows wastewater to flow from the first treatment stage to the second without the use of a feed pump.

There are several key features which make the Ecolotron EC reactor unique among commercially available EC technology providers. The design of the Ecolotron EC reactor enables it to be completely enclosed for safe installation as part of the OMNIPURE Series 55 system. Additionally, the reactor is easy to access and open for routine maintenance and replacement of the consumed electrodes. The Ecolotron EC reactor also features simple electrical connections.

According to Frank Martin, director of operations of Severn Trent De Nora, "We evaluated other EC cell technologies when we began development of the OMNIPURE Series 55 system to meet the new and then-impending MEPC.159(55) regulations. With the Vinson Gavrel Group's commitment to electrocoagulation technology, the Ecolotron EC reactor became our technology choice for use in our systems."

### **About Severn Trent De Nora, LLC**

Severn Trent De Nora, LLC ([www.severntrentdenora.com](http://www.severntrentdenora.com)) is a joint venture offering a solid foundation to support marine and offshore industrial water disinfection needs by drawing upon the strength and global resources of Severn Trent Services, Fort Washington, Pa., USA ([www.severntrentservices.com](http://www.severntrentservices.com)), and



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Gruppo De Nora, Milan, Italy ([www.denora.it](http://www.denora.it)). Severn Trent De Nora offers the benefits of enhanced technical solutions and a greater range of services by combining the seawater disinfection capabilities of both companies. Severn Trent De Nora offers products to serve marine wastewater treatment applications and the seawater disinfection needs for the following applications: power generation, desalination facilities, coastal industry, offshore oil and gas facilities, general marine, cruise vessel industry and navies worldwide.

**About Ecolotron, Inc**

Ecolotron, Inc. ([www.ecolotron.com](http://www.ecolotron.com)), headquartered in Kemah, Texas, provides advanced wastewater recovery solutions minimizing hazardous waste while productively re-using waste stream materials in reclamation and recycling efforts. The company's patented electrocoagulation reactor and processes are applied to wastewater treatment for reuse and recovery across industries, resulting in overall cost reduction. Ecolotron is committed to advancing its technology and solutions to consistently meet regulatory requirements. Ecolotron is a privately held company.

**About The Vinson Gavrel Group**

The Vinson Gavrel Group, headquartered in Clear Lake Shores, Texas, developed and owns the US Patent #7,087,176 B2 which describes the Apparatus Patent and US Patent #6,719,894 B3 which describes the Process for Electrocoagulation of Waste Fluids. The company has granted rights to Ecolotron, Inc., for use of the patents for productization and marketing the EC reactor and process. The Vinson Gavrel Group is a privately held company.

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