



ITT

Newsletter

ITT Water & Wastewater Canada Treatment
Winter 2008



ITT Water & Wastewater Canada is pleased to present you with its Winter 2008 Treatment Newsletter. We hope you find the contents both informative and of interest. The intent is to publish several issues each year with articles of interest to ITT Water & Wastewater customers regarding processes, products and events of interest to the Treatment Market in Canada.

Should you have comments or suggestions for topics you would like addressed in the future, please contact:

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WEDECO SMO/SMA Series Ozone Generators **Setting the Standard for Ozone Generation**

The WEDECO SMO/SMA series ozone generators are designed with the vessel, power supply unit, and control system installed on a compact, pre-packaged skid. All SMO/SMA series ozone generators are fitted with patented EFFIZON® HP electrodes, providing efficient and reliable generation of high concentration ozone.

Ranging from 30 to 800 pounds per day production capacity, the SMO/SMA series generators are designed to meet your treatment needs. The WEDECO SMO/SMA series ozone generators are factory preassembled and tested prior to delivery. This provides our customers with the peace of mind that their ozone plant will start up on time and perform according to design, every time.

Advantages of SMO/SMA Series Ozone Generators:

- Plug and Play systems (completely mounted and instrumented).
- Easy operation.
- Robust design for operation under rough ambient conditions.
- Certified factory test prior to delivery.
- Low footprint requirement.
- Automatic operation.
- Low capital and operating costs.
- Modular design.
- 10 year replacement warranty on EFFIZON® HP electrodes.

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Engineered for life

WEDECO SMO/SMA Series Ozone Generators (continued)

Numerous applications

WEDECO's SMO/SMA Series ozone generators are ideally used for disinfection and oxidation in a variety of applications and markets, such as:

- Municipal Drinking Water Disinfection.
- Municipal & Industrial Waste Water Treatment.
- Water Reuse.
- Taste, Odour, and Color Removal.
- EDC (Endocrine Disrupting Chemicals) and Pharmaceutical Removal.
- Iron and Manganese Removal.
- Hydrogen Sulfide Removal.



Brochure **WEDECO SMO/SMA Series Ozone Generators** is available. Ask your local sales representative

New version of TAK 55

The ultimate solution for wastewater disinfection

A totally new designed version of the WEDECO TAK series, the ultimate solution for wastewater disinfection with UV light.

The main feature of this new version of the TAK 55 UV system is the integration of the electrical cabinets for ballasts, control and power distribution into the former junction box so that individual cabling of the lamps to the ballasts in the field is eliminated. This will drastically reduce time and cost during installation and start-up.

The new cabinets will be installed across the channel and receive directly the lamp cables from the module. The new version will be equipped with the latest ballast generation which has been extensively tested for temperature stability and electrical robustness.

The TAK 55 series was generally engineered for the disinfection of municipal wastewater. Several different TAK design configurations are available to meet worldwide regulatory requirements and cope with varying degrees of water quality depending on the level of pre-treatment (e.g. primary, secondary or tertiary). Installed in final effluent channels, the modular design of the TAK allows for practically unlimited flow capacities.



Efficient Low Pressure UV lamp modules ensure the disinfection of waste water in an open channel.



The new TAK outdoor version houses all necessary electrical components in a compact unit, optimized for outdoor assembling.

WEDECO

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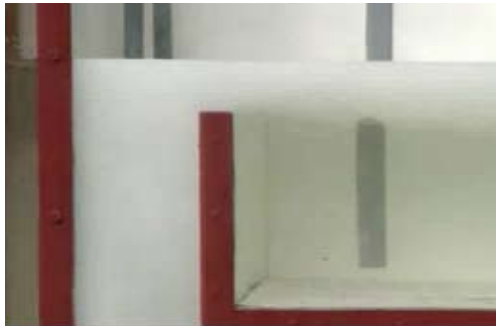
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Three Major Clari-DAF™ wastewater systems in Canada for 2009

2009 will be the year of the Clari-DAF™ system in Canada: three major installations will be done by ITT W&WW - Leopold:

- Penticton, BC will handle 4,735 m³/hr
- Winnipeg, MB will handle 17,000 m³/hr
- St John's, NL will handle 5,160 m³/hr

Leopold® Products' Clari-DAF™ System eliminates taste- and odor-causing algae and other low-density particles that are difficult to remove by gravity sedimentation. It utilizes a process in which air is dissolved into water under high pressure. Upon release of the pressurized air into the bottom of the Clari-DAF™ chamber, millions of microbubbles are created like the ones in the milky white water pictured below.



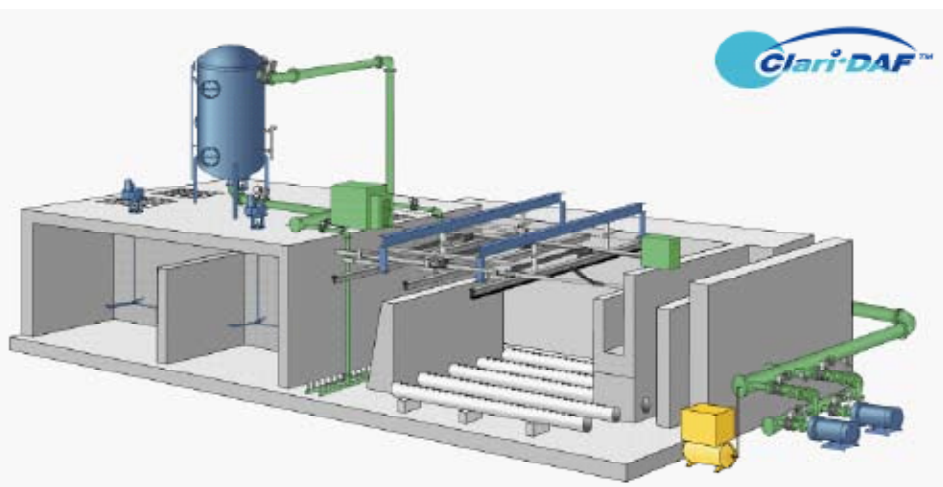
The countless microbubbles attach themselves to pinpoint floc particles and float them to the surface for easy removal with a mechanical skimmer or by hydraulic overflow.



The Clari-DAF™ System is applicable to virtually any stored body of water, especially colored water, algae-laden water, turbid water, water with high seasonal iron and manganese content and low temperature water. A Leopold Clari-DAF™ System typically removes 97 percent of algae and 96 to 99 percent of turbidity.

Pilot plant available to optimize your system

Leopold also offers a Clari-DAF™ pilot plant that gathers data every five minutes around the clock for weeks under actual operating conditions to determine the most appropriate flocculation conditions for designing and engineering a full-scale Clari-DAF™ installation. Using data obtained from treatment studies, Leopold optimizes the Clari-DAF™ installation with sophisticated computer modeling. Computational Fluid Dynamics (CFD) simulations "operate" the unit before it is built so the installation can be designed with the most efficient flow patterns for the most effective treatment. Contact us for more details.



Treatment Days

At the beginning of 2008, two divisions of ITT, ITT Flygt and ITT Advanced Water Treatment were merged into one company to better serve the water and wastewater treatment and transport market. As a means to introduce the new division, we have held a series of day-long presentations across Canada to give our customers an overview of the products and services that we offer. Sessions were held in Toronto, ON and Montreal, QC in June, and Vancouver, BC and Calgary, AB in September.

TYPICAL TREATMENT DAY SCHEDULE

8:30 - 8:40	Welcome & Introduction to ITT W&WW
8:40 - 9:45	Sanitaire – Aeration and ICEAS
9:45 - 10:00	Break
10:00 - 11:30	Leopold – Filter, DAF and sludge collector
11:30 - 12:00	Flygt Mixers
12:00 -13:00	Lunch
13:00 -13:45	Pumps - Wet and Dry Installations
13:45 - 14:30	Intelligent Controls & Trends
14:30 -14:45	Break
14:45 - 15:30	Prefabricated Pumping Stations
15:30 - 16:00	WEDECO – UV and Ozone

This is an example of schedule we had for these sessions.

They were a success in every city, with good comments from customers who participated. Next year, we will be holding the Treatment Days in new cities. We will inform you of dates and places.

**Water treatment
starts with YOU!**

ITT Wins Wastewater Treatment Contract in Oman

ITT Corporation, the leading provider of pumps and systems for the movement and treatment of water and wastewater, has been awarded a wastewater treatment plant contract in Oman for the city of A Seeb. This contract was awarded to ITT through Hyundai Rotem, the project's general contractor.

ITT was selected by Hyundai Rotem to provide a secondary wastewater treatment solution that includes a sewage treatment plant based on continuous flow Sequencing Batch Reactor (SBR) technology, three main pump stations, two treated effluent pump station facilities, and an integrated control automation system. The plant, which will be Oman's largest in terms of capacity, is designed to reuse the treated wastewater for landscape irrigation purposes or for sea discharge in winter months, if needed.

"This contract represents a major win for ITT in the region, and really showcases the range of our expertise in the global water and wastewater market," said Per-Inge Birgersson, president of ITT Water & Wastewater. "We will play a critical role in this complex, multinational project that will yield ongoing benefit to the economy of Oman as well as the quality of life of its people." ITT provides a full range of wastewater and dewatering pumps, secondary biological treatment, filtration and disinfection products to municipal and industrial wastewater businesses. The company is the largest manufacturer of submersible pumps and mixers used in wastewater treatment facilities around the world.

The A Seeb facility is scheduled to open in March 2011.



What can ITT Water & Wastewater do for you?

Integrated solutions for fluid handling are offered by ITT Water & Wastewater as a world leader in transport and treatment of wastewater. We provide a complete range of water, wastewater and drainage pumps, equipment for monitoring and control, units for primary and secondary biological treatment, products for filtration and disinfection, and related services. ITT Water & Wastewater, headquartered in Sweden, operates in some 140 countries across the world, with own plants in Europe, China and North and South America. The company is wholly owned by the ITT Corporation of White Plains, New York, supplier of advanced technology products and services.