



**ITT**

# Newsletter

ITT Water & Wastewater Canada Treatment  
Summer 2010



ITT Water & Wastewater Canada is pleased to present you with its **Summer 2010 Treatment Newsletter**. We hope you find it informative and of interest.

Should you have any comments or suggestions you would like addressed, please contact:

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## Spektron UV Reactor Available in Canada

ITT W&WW Canada is proud to announce the latest addition to its WEDECO brand UV Disinfection systems. With over 250,000 systems installed, WEDECO products are essential components in treatment plants across the globe.

The Spektron Series UV systems are designed for drinking water but can also be used for the treatment of industrial process water. Energy savings of up to 30 % can be realized with the Spektron's latest generation of electronic ballasts and Spektrotherm lamp technology.

### Key features of the Spektron UV Systems:

- Capable of treating up to 4000 GPM ;
- Certified according to DVGW & ONORM ( 40 mJ/ cm2);
- Flexible Installation with 360 Degree Flange;
- Easy operation and maintenance;
- Unique CrossMix® module allows for enhanced flow capacity per lamp;
- Very low head loss through the UV system;
- Spektrotherm lamps rated for 12,000 hours of operation.



### Advantages of Using UV Disinfection:

- Easy to install & operate
- No change in water chemistry
- No generation of toxic by-products
- No affect on color, taste & odour
- No corrosion



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[www](#)  [Click here for additional information on the Spektron UV System](#)

*Engineered for life*

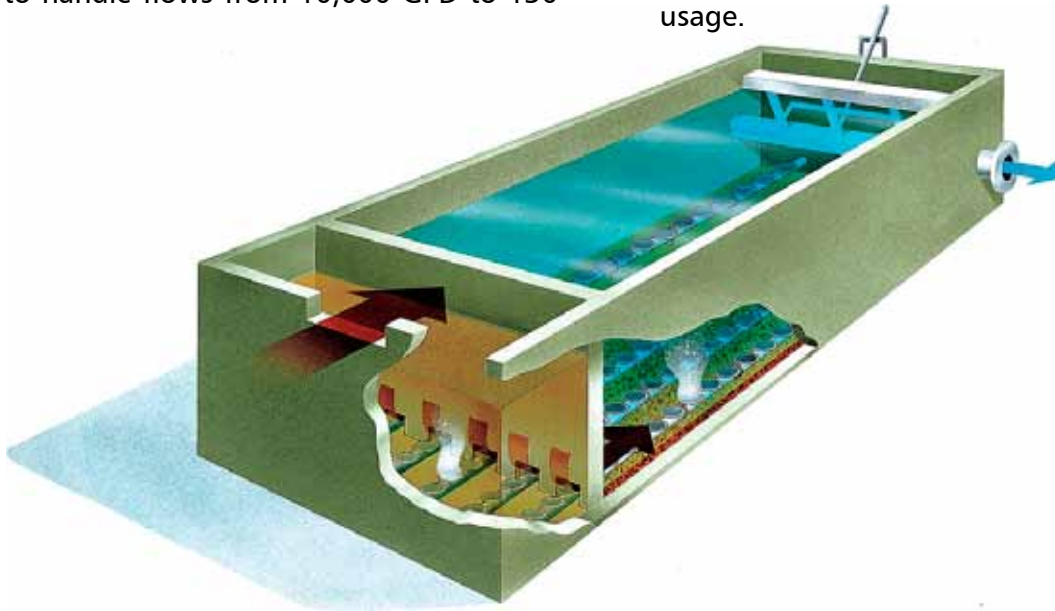
## ICEAS Advanced SBR system

ITT Sanitaire's ICEAS (Intermittent Cycle Extended Aeration) is an advanced sequencing batch reactor technology for municipal and industrial wastewater treatment.

While conventional SBR requires two basins for operation, ICEAS can achieve processes of biological oxidation, nitrification, phosphorus removal and liquids/ solids separation continuously in a single basin. With its two treatment zones separated by a non-hydrostatic baffle wall, ICEAS systems can be designed to handle flows from 10,000 GPD to 130 MGD.

### Advantages:

- Smaller basin size and less equipment needed than conventional SBR;
- High biological effluent quality (10/10/5/1 mg/l BOD/TSS/TN/TP);
- Continuous flow operation with a time based control system;
- Equal flow and loading, all basins receive flow at the same time;
- No return sludge pumping or piping needed;
- Sanitaire fine bubble aeration minimizes energy usage.



[www](#) → For more information on ICEAS SBR systems, [click here](#)

## Case Story: ITT Temporary Aeration Solutions

When the William Head treatment plant in BC decided to increase its capacity and extend their facility, a temporary aeration solution was needed

In an effort to avoid laying down a concrete foundation for their 470 cubic meter interim basin, local engineers first investigated laying drilled PVC piping to provide aeration. ITT provided a simpler solution with a submersible jet aerator connected to a Flygt 3153 submersible motor.

With its lift in, lift out design, the Flygt jet aerator provided optimum aeration and avoided the use of additional compressors, special housings and additional piping.

[www](#) → For the full case story, [click here](#)

[www](#) → For Jet Aerators brochure, [click here](#)



### ITT W&WW Canada Treatment Newsletter

is published by **ITT Water & Wastewater Canada**  
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