



## Case Study

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### New Windsor International Aquatic and Training Centre



Where  
Competitive  
Athletes Train  
and  
Youngsters  
Enjoy  
All Kinds of  
Water  
Attractions

Windsor, Ontario's newest landmark is the envy of cities across Canada, and indeed throughout the east coast of North America. Under the roof of the spectacular new complex with its futuristic architecture, is an Olympic swimming pool and high-diving well plus the Adventure Bay Family Water Park. In addition, the Centre is the new home of the Windsor/Essex County Sports Hall of Fame.

The Aquatic and Training Centre's 71-metre pool, built to accommodate both 50 meter and 25 meter events, has 10 lanes with two movable bulkheads, multiple diving boards and a dive tower — all designed to meet world class competition standards. In fact, several events have already taken place and athletes are presently using the pool as they train for upcoming national and international championship meets.

But, it is the Adventure Bay Family Water Park that dazzles Windsor youngsters and their parents. The nautical theme conjures up notions of faraway places where sea creatures, sand dollars, and palm trees abound. The Water Park features a wave pool, an activity pool with basketball net and floatable toys, tunnels and ladders, two-person or three-person inner tube rides, a four-lane water slide, a tot pool, a water tipping bucket and numerous other attractions such as bubbling jets, mini-cannons and tipping cones.



## New Windsor International Aquatic and Training Centre

**Dectron Internationale has played an important role in the construction of this state-of-the-art complex.**

Wherever there is water there is humidity, and this project is all about water. The main natatorium and the aqua park are divided into two separate areas, with the mechanical room in-between.

Two large **DRY-O-TRON**<sup>®</sup> units were custom-engineered for optimal dehumidification in the Aquatic Training Centre. In the Aqua Park, where there are several different water attractions, including water toys and slides, three large **DRY-O-TRON**<sup>®</sup> units were needed to ensure ideal humidity levels. Not only do these units control the indoor air environment for comfort, each was fitted with energy recycling features such as air and pool water heating, free cooling, free dehumidification and finally, preheating of the outside air. These features lower the building's energy consumption and ensure optimal building operation savings.

According to Sham Ahmed, Eng., Dectron's COO, "Indoor pool dehumidifiers provide the critical function of protecting a building from excess humidity, thereby sparing interior spaces the damages caused by moisture condensation. The **DRY-O-TRON**<sup>®</sup> brand is considered the gold standard for applications where uncontrolled humidity or signs of mildew are totally unacceptable."

The City of Windsor now has a signature aquatic complex that will bring international renown in the world of competitive swimming and diving. Perhaps more important is the fact that generations of children will grow up with memories of awesome days at the Adventure Bay Family Water Park.



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