



DRY-O-TRON® RB-362 DEHUMIDIFIER



DRY-O-TRON® Fits with Recreation Centre's Value-Engineering Plan



The architectural combination of metal, glass, and wood produces rave reviews for the new Esquimalt Recreation Centre indoor pool.

Esquimalt Township, Victoria, British Columbia —

Although the project began with the condensation-generating materials presenting a dehumidification and airflow challenge, since its completion, the new Esquimalt Recreation Centre has been widely praised as a success story.

High humidity loads could have long term effects on the striking interior design, as condensation could possibly affect the structure and cloud the hundreds of square feet of window surfaces unless the airflow design had sufficient throw and consistency.

Aside from the material concern, a further challenge to undertake was managing a myriad of moisture-generating pools of water at different temperatures. These include a 78 x 42-foot lane pool at 85°F; a 16 x 16-foot children's pool at 90°F; a 14-foot-diameter spa at 105°F; and a 40 x 60-foot leisure pool at 90°F. The natatorium, which is part of an \$8.1 million renovation and addition to the existing

30-year-old recreation building, also includes additional moisture-generating "toys", such as fountains and water canons that add to the large humidity load.

The Recreation Centre Operations Manager's request for value engineering and the structure's moisture elimination requirements would test the 12,000-square-foot natatorium's HVAC design team's expertise.

Part of the "value engineering" included a strategy to maintain a 55-percent relative humidity throughout the space, which relied on Victoria's moderate climate and using only overhead ductwork.

The space's indoor air quality is maintained by a Dectron, Montreal, Quebec, DRY-O-TRON® heat recovery dehumidifier that



The "myriad of moisture-generating pools of water" at the Esquimalt Recreation Centre.

Dectron's rooftop DRY-O-TRON® RB Series is a completely weather-proof, double-skin construction with stainless-steel hardware, service light and service outlet, and special epoxy paint.

The RB Series consists of rain guards, hinged doors with flush mounted adjustable tension cam latches and continuous raised compression gasket door seals, safety door holders, and built-in corrosion-proof self-draining

The story of the success of this Esquimalt Recreation Centre project has been presented at an American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) meeting to rave reviews.

Dectron Inc., an ISO-Certified company, is a global HVAC industry leader. For nearly three decades, Dectron's highly-skilled engineers and technical staff have been designing and

The natatorium space includes additional moisture-generating "toys", such as fountains and water canons that add to the large humidity load; the indoor air quality is maintained by a Dectron, Montreal, Quebec, DRY-O-TRON® heat recovery dehumidifier.

removes 400 lb. of moisture/hr., while also providing cooling and heating for the space. The DRY-O-TRON® RB-362 is one of the largest dehumidifiers in Dectron's line and uses heat recovery to provide free pool water heating for the room's largest pool. The other three vessels' individual temperature demands are met with separate boilers and heat exchangers to keep strict temperature control.

sanitary drain pan covering the entire evaporator coil section.

Additional features include an exclusive-to-Dectron simultaneous heat rejection to air and pool water, thus avoiding temperature swings, as well as a minimum pool water heating mode, which guards against wide fluctuations in pool water temperature. The RB Series also contributes to space heating when required.

manufacturing innovative, state-of-the-art DRY-O-TRON® dehumidification equipment that use leading-edge technology to recycle energy, conserve pool water, and CHLORAGUARD® filter natatoriums. Dectron Inc.'s DRY-O-TRON® line of products encompasses an extensive array of custom and semi-custom systems for industrial, commercial, and residential applications.



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