

Kenora Recreation and Wellness Centre

OWNER: City of Kenora

LOCATION: Kenora, ON

DESIGN TEAM:

- Mechanical Consultants**
MCW/AGE Consulting
Professional Engineers
- Electrical Consultants**
MCW/AGE Consulting
Professional Engineers
- Architect**
Nelson Architecture Ltd.

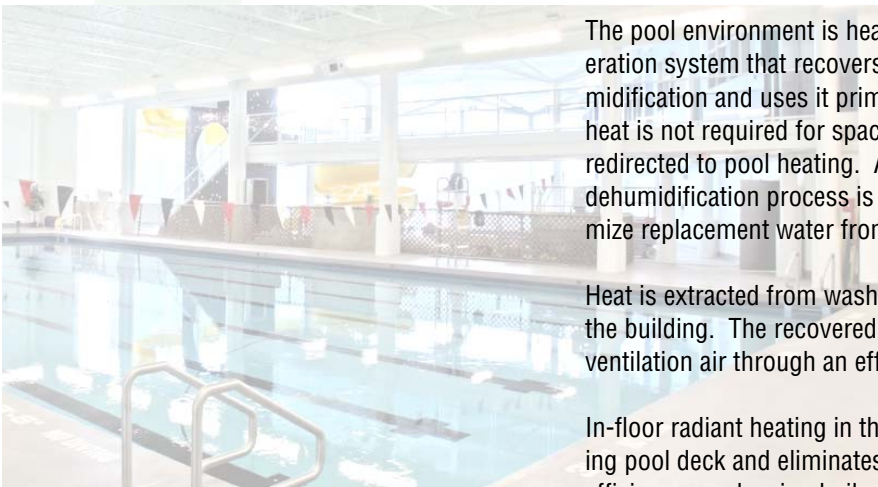


DESIGN SCOPE:

- Addition = 26,470 sq ft
- Renovation = 21,860 sq ft

The City of Kenora embarked on a project to upgrade their Recreation Complex from a basic swimming pool and ice rink, into a focal point of the community where residents would gather to relax and play. The City needed a facility that was eye catching and inviting, yet also minimized utility and maintenance costs.

MCW/AGE assisted by designing a 'state of the art' pool treatment system for water that sparkles without the annoying predominant smell of chlorine. The pool water treatment system utilizes salt from an Electro-nator System for disinfection to eliminate the handling of hazardous chemicals.



The pool environment is heated and cooled by a direct expansion refrigeration system that recovers the waste heat resulting from space dehumidification and uses it primarily for room ventilation air heating. When heat is not required for space heating, the waste heat is automatically redirected to pool heating. All condensate removed from the air by the dehumidification process is captured and returned to the pool to minimize replacement water from municipal utilities.

Heat is extracted from washroom and general exhaust before it leaves the building. The recovered heat is then used to pre-heat the incoming ventilation air through an efficient glycol run-around system.

In-floor radiant heating in the pool deck ensures warm toes, a fast drying pool deck and eliminates drafts from the extensive glazing. High efficiency condensing boilers are utilized to generate the heating water for the in floor heating system.