



City of Brantford

Architects: **CS&P Architects Inc.**
Consultants: **MCW Consultants Ltd.**

Wayne Gretzky Sports Centre:

The WGSC is the center of sports and leisure activity for the community, and offers residents and visitors year-round access to the sports and activities they love. Including a terrific pool.

The beautiful naturally lit facility with new 4-pad arena and dressing rooms decorated in bright blue, orange, green and yellow has excellent viewing and seating in all four rinks. Features include:

- Main arena with centre speaker, press box and 1100 seats
- Three arenas with bleacher seating for 350
- Viewing into all rinks from warm lobby/corridor area
- All Ice surfaces sunken 12"-18" to allow better visual of the whole surface
- In-seat heating in all bleacher and riser seating using free, reclaimed heat from the arena mechanical plant
- Restaurant/cafeteria and Pro-shop

Project Highlights:

- Five Energy recovery ventilation (ERV) units bring fresh air to building and recover energy from the exhaust air.
- For each loop, heat recovery is captured from refrigeration. Typically, two heat exchangers per loop. First stage of heating is fed by energy released by refrigeration. Second stage is supplied by boilers
- In-floor heating for change rooms and arena seating

Project Details:

- Six modulating Boilers, supplying five heating loops
- Cooling Tower, will cool the heat pump loop to provide cold air throughout the building in the summer
- Domestic hot water (DHW) has two stages. First stage is from the refrigeration (desuper heater). Second stage is doubled with boilers in the summer; the temperature produced is by the heat pumps; the boilers are not required.
- Two Dry-O-Tron units maintain proper humidity levels in the pool area.
- Airon monitors the chemical control systems. Alarms flag any issues.
- Each area has a dehumidifying unit equipped with humidity, space temperature, CO and CO₂.
- Ventilation with VFD exhaust fan to regulate CO₂ levels in a safe range.
- Two rooftop units
- Seven heat pumps throughout the complex work with Variable air volume (VAVs) to supply fresh air based on CO₂ levels.
- Indoor and outdoor lighting is controlled



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