

# | Lakeville Achieves the Perfect Pool Environment Through Outdoor Air

**LOCATION** | Blanchard Aquatic Center, Lakeville, MN

**INSTALLING CONTRACTOR** |  
Loeffler Construction & Consulting

**ARCHITECT:** | DLR Group

**PRODUCT MANUFACTURER:** | Innovent



## | HIGHLIGHTS

- New pool space has no presence of chloramines thanks to effective outdoor ventilation
- Achieved consistent space temperature relative to pool temperature
- Remote access to units through BACnet connects facilities across the district.

## | BACKGROUND

Lakeville Area School District needed specific air handling solutions for a pool addition at Century Middle School. The new Blanchard Aquatic Center would include a dive pool, a lap pool, and a large spectator area that seats 476 people. The project also included replacing aging AHUs for existing pool facilities at Kenwood Trail and McGuire Middle Schools.

The facilities team and the district were confident Innovent's air handling solutions would deliver effective climate control through precise outdoor air ventilation.

## | CHALLENGE

The space temperature in natatoriums should be kept 2 °F above the pool water temperature to minimize condensation, potential rust, and weakening of the structure, and maximize cost savings by reducing pool water evaporation. Therefore, pinpoint control of the space temperature would be crucial for the project's success.



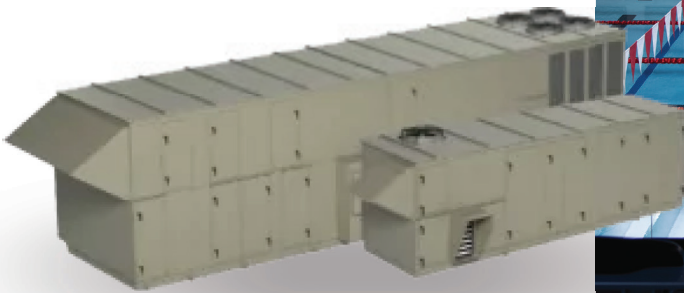
Natatoriums are challenging applications to deliver fresh air to the breathing zones of swimmers, people on the pool deck, and spectators. They are often highly humid spaces that can contain chloramine gas, a corrosive byproduct of pool chlorination, that hangs in the air and causes serious respiratory irritation.

**LEARN MORE ABOUT INNOVENT POOL DEHUMIDIFICATION SOLUTIONS:**

**LEARN MORE NOW**

# | Lakeville Achieves the Perfect Pool Environment Through Outdoor Air

**LOCATION** | Blanchard Aquatic Center, Lakeville, MN  
**INSTALLING CONTRACTOR** | Loeffler Construction & Consulting  
**ARCHITECT:** | DLR Group  
**PRODUCT MANUFACTURER:** | Innovent



## | SOLUTION

The Lakeville Schools facilities team is keenly aware of the importance of using outdoor air to improve indoor air quality in pool spaces. They chose Innovent for its commitment to outdoor air and extensive experience with large-capacity natatoriums.

The Innovent system at Blanchard delivers 46,000 cfm with 20–40% outdoor air depending on the mode. Innovent's factory-programmed controls integrate seamlessly into BACnet, the school's BMS.

Innovent's equipment helps maintain a negative pressure in the space, which protects pool structures, prevents corrosion, and keeps chlorine odors out of adjacent areas.

## | RESULTS

The Lakeville facilities team is thrilled with their new Innovent AHUs. The innovative energy recovery technologies and intelligent dehumidification reduce energy costs while providing up to three times as much fresh air as traditional systems.

The team is happy that no chloramine smell is present in the space, thanks to effective outdoor air ventilation. The Blanchard Aquatics Center has hosted 29 meets to rave reviews from athletes and spectators.

**LEARN MORE ABOUT INNOVENT POOL DEHUMIDIFICATION SOLUTIONS:**

**LEARN MORE NOW**