

PROJECT PROFILE

Menominee Indian High School



OVERVIEW

The Menominee Indian School District opened a new, state-of-the-art high school in Keshena, Wisconsin in 2024—designed to reflect the heritage, growth, and future of the Menominee community. The facility features a field house gym, technical education spaces, Menominee language labs, and a unique food harvesting lab focused on culturally significant skills.

To deliver a sustainable, energy-efficient HVAC system, the district partnered with Vyron.

CHALLENGE

- Efficiently heat and cool the entire facility using geothermal energy.
- Maintain the simplicity and familiarity of a traditional hot and chilled water system.
- Deliver consistent comfort across diverse learning environments and large open spaces.
- Support the district's sustainability and long-term energy efficiency goals.

SOLUTION

- Provided WaterFurnace TruClimate 500 6-pipe geothermal chillers to deliver both hot and chilled water simultaneously.
- Enabled the building to meet all loads without supplemental heat.
- Centralized geothermal equipment in the mechanical room while maintaining a familiar hot & chilled water system.

RESULTS

Energy Efficiency

Simultaneous heating and cooling transfers energy between loops, reducing waste and minimizing natural gas use. The geothermal loop supplements only as needed for optimal efficiency.

Simplified, Centralized Design

A 6-pipe modular chiller keeps geothermal equipment centralized, reducing maintenance and noise while preserving the reliability of traditional AHU and VAV systems.

AT A GLANCE

Contractor: Miron Construction

Engineer: Sommerville Architects & Engineers

Vyron Engineer: Jack Risch

Location: Keshena, WI

Application: K-12

Products: WaterFurnace TruClimate
500 6 Pipe Heat Recovery Chillers

Benefits

- Energy Efficiency
- Centralized Heat Pump Equipment
- Redundancy
- Modular Design



WaterFurnace TruClimate
500 6-Pipe Geothermal
Chillers

