

### Mechanical Services HEI can provide

- Air Conditioning Heating Ventilation
- Sanitary and Storm Piping
- Domestic Water Piping and Systems
- Building Automation Systems
- Medical Gas and Piping Systems
- LEED Certification
- BIM Design
- Energy Audits

### Types of Facilities HEI Designs

- Medical
- Educational
- Institutional
- Commercial
- Industrial
- Laboratory Design
- Computer Room Design

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## Crestline Schools

The Crestline PK-12 school building located in Crestline, Ohio and designed by MKC Associates recently opened. The 123,000 square foot building was completed in two phases with the Middle and High School opening in January of this year and the Pre-K and Elementary school opening this August.

The building design featured an 800 seat H.S. gymnasium and 185 seat M.S. gymnasium. The dining commons, stage and kitchen facilities are shared by all students.

The HVAC system was a geothermal design with 264 boreholes of 300 ft. depth concealed below the parking lot located at the rear of the building. The geothermal system provides 380 tons of cooling and 1,925 MBH of heating. A variable speed pumping system with vertical inline pumps circulates fluid to more than 100 geothermal heat pump units throughout the building. Many of the classrooms have vertical heat pump units that are installed in a closet located within the classroom for easy maintenance access.

Outdoor air is provided to the building by six dedicated outdoor air units which providing neutral air at a constant discharge temperature. The units feature energy recovery wheels and hot gas reclaim. Heat reclaimed from the compressors is used to pre-heat the outdoor air in the winter months. The units are variable volume, and supply air to variable air volume boxes that vary the airflow based on carbon dioxide levels in the space to maximize energy savings.

The Kitchen Hoods and associated make-up air unit also utilize variable speed controls.

**MKC Associates was anticipating LEED Gold certification**



### CONTACT US

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