

## HVAC Replacement Salato Education Center , Frankfort, KY

Owner: Kentucky Finance Cabinet - DECA  
User Agency: KDFW  
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Building Area: NA  
Construction Cost: \$ 487,000  
Project Status: Completed 2021  
Project No.: C8V8

### Project Description:

Project included the complete replacement of a boiler tower based heat pump system with new geothermal heat pump system. One main room was converted to rooftop unit. All new controls were installed.



### Engineering Highlights:

#### HVAC:

Main part of building has many live fish aquariums and reptile displays. Temporary heating for this building had to be maintained during the winter to keep all animals healthy. This was specified into the contract. All existing heat pumps were removed and replaced with new heat pumps except for the main display room. A rooftop unit was provided for this room to give it better zoning and control.

New HVAC system is based on geothermal ground heat exchanger which allowed the troublesome cooling tower and boiler systems to be removed. All new DDC controls were installed.

#### Electrical:

Many existing circuit breakers were reused from abandoned equipment reducing the cost of this work. New panel was added for mechanical room equipment.