

# EDUCATIONAL INSTITUTIONS

Commercial Geothermal Heat Pumps



**Water-Furnace**  
Smarter from the Ground Up™



## THE HEAD OF THE CLASS

Thousands of school systems around the country are learning a valuable lesson: geothermal heating and cooling provides the best solution to the conditioning challenges faced by today's schools. A WaterFurnace geothermal system is safer, quieter, requires much less maintenance, significantly reduces operating costs and is also environmentally friendly. The U.S. EPA agrees. They've called it the most cost effective, environmentally friendly way to condition our buildings.

So how does it work? Thanks to the sun, the earth remains a nearly constant 55°F to 70°F just a few feet underground. WaterFurnace taps into that stored solar energy to provide savings up to 70% on heating, cooling and hot water. In winter, a series of underground pipes called a "loop" collects heat from the earth, concentrates it, and delivers it to the school to heat classrooms, offices, and make hot water. In the summer, the system reverses and moves heat from the building to the cooler earth. Energy isn't created, it's simply moved back and forth. In fact, a geothermal system doesn't burn any fossil fuels. With absolutely no combustion, there's no danger from carbon monoxide or explosion.



Fond du Lac High School, Fond du Lac, Wisconsin. 402,000 square feet.  
Estimated savings in operating and maintenance costs: \$290,000 per year.



Maxey and Campbell Schools, Lincoln, Nebraska. 70,000 square feet.  
Actual savings in operating costs: \$17,000 per year.

## UNMATCHED EFFICIENCY + ENVIRONMENTAL RESPONSIBILITY = SUSTAINABLE BUILDINGS

WaterFurnace units provide both versatility and efficiencies traditional systems can't match. Temperatures can be precisely controlled from classroom to classroom and throughout the complex. Equipment is entirely indoors with the heat exchanging loop underground, thereby eliminating the efficiency-robbing abuses suffered by traditional systems. They also require much less space and ductwork so they allow schools to reclaim thousands of square feet of traditionally wasted space. With new federal and state incentives, there's never been a better time to switch.

## LEADING BY EXAMPLE

WaterFurnace geothermal heating and cooling technology is ideal for schools of all sizes and locations, from single buildings to entire campus complexes. Administrators love the low maintenance and operating costs of geothermal, parents in the community appreciate the safe and environmentally responsible choice, while our children learn a valuable lesson in environmental stewardship.



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