

Offices

Commercial Projects

“In ten months,
we’d saved
approximately
\$130,000.”

— *Mike Lucas,*
Director of
Regional Services,
GEICO

WaterFurnace[®]
Smarter from the Ground Up



Offices

“Out of sight, out of mind — that’s pretty much how the WaterFurnace system has worked for us for the past six years. It’s very, very dependable. Another advantage is that it doesn’t take a lot of floor space, and we are able to utilize more of the building for employee workspace, not for a large, dirty mechanical room.”

— *Steve Foor, Director
Corporate Facilities Engineering
Lincoln National Life Insurance*

“After extensive testing of various manufacturers’ products, we chose WaterFurnace. The reason is simple: WaterFurnace heat pumps were more efficient; the price was right; and WaterFurnace’s salesperson made it easy.”

— *Mike Lucas, Director
Regional Services
GEICO*

“No feature of the building is more attractive than the (WaterFurnace) ground source heat pump system, which is part of an effort to make a building that works with the environment.”

— *Don Frederick, President
The Frederick Group
builders of the Paragon Center*

“The Customer Service Center was built to showcase geothermal technology. The units are so quiet that we had to incorporate white noise into our piped-in music system, not to mention the high degree of comfort achieved all year long.”

— *Mike Orban
Account Representative
Architects/Engineers*



Lincoln National Life Insurance

Fort Wayne, Indiana
Square Footage: 52,000
Type of System: Pond Loop
Number of Units: 40
Total Capacity: 156 Tons

GEICO

Woodbury, New York
Square Footage: 250,000
Type of System: Boiler and
Cooling Tower Closed Loop
Number of Units: 203
Total Capacity: 812 Tons
Payback: less than one year

Paragon Center

Allentown, Pennsylvania
Square Footage: 80,000
Type of System: Hybrid Loop
Number of Units: 78
Total Capacity: 200 Tons
Operating Cost: \$ 0.10-0.50 sq. ft./yr.

Ohio Edison

Akron, Ohio
Square Footage: 15,360
Type of System: Vertical Loop
Number of Units: 27
Total Capacity: 48 Tons
Operating Cost: \$ 0.35-0.40 sq. ft./yr.

“The best feature of the WaterFurnace system is its quiet operation, which is essential in a courtroom. In addition, the variable speed fans and staged compressors add flexibility to our entire system.”

— Alex Strassenburgh
Senior Mechanical Engineer
Wayne County Courthouse



“Incorporation of (WaterFurnace) geothermal technology enabled us to reduce energy consumption, allowing us to completely eliminate the use of gas in the commercial component of the project. We don't even have a commercial gas meter.”

— Marvin Breyfogle
President
Dandelion Geothermal Ltd.



Wayne County Courthouse
Wayne County, New York
Square Footage: 38,000
Type of System: Boiler and Cooling Tower
Number of Units: 30
Total Capacity: 105 Tons

2211 West Fourth, Kitsilano
Kitsilano, British Columbia
Square Footage: 25,000 office;
40,000 retail
Type of System: Closed Loop (Vertical)
Number of Units: 70
Total Capacity: 200 Tons
Payback: less than three years

Commercial Projects

Regardless of your climate, a WaterFurnace comfort system can provide your office facility with low operating costs, unsurpassed comfort, excellent reliability, and long life... all at an affordable, competitive price.

Here's more of our many successful office installations:

First of America Bank Headquarters,
Kalamazoo, MI

Kentucky Association of Realtors,
Lexington, KY

Eastman Chemical,
Kingsport, TN

First National Bank,
Ballenger, TX

Buckeye Power,
Columbus, OH

Anoke Electric,
Ramsey, MN

Clotfelter-Samokar Building,
Lexington, KY

Alaska Electric Light & Power,
Juneau, AK

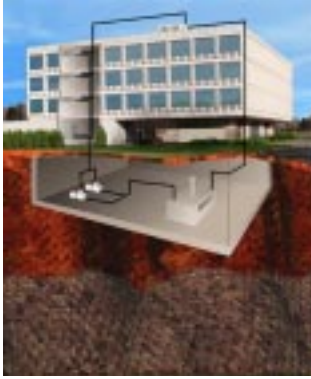
Escambia River Electric,
Jay, FL

WaterFurnace
High Efficiency Heating and Cooling Equipment

Energy savings and superior comfort— that's the WaterFurnace difference.

Commercial Projects

Join the WaterFurnace revolution. Clean, comfortable and economical geothermal heating and cooling systems are in place in commercial buildings worldwide.



Boiler/Tower Systems ARI 320



Ground Water ARI 325



Closed Loop Earth Coupled ARI 330



Pond Loop Systems ARI 330

In some applications, WaterFurnace liquid source heat pumps are used in conjunction with conventional boilers and cooling towers or condensers. Existing boiler/tower jobs are frequently retrofitted for efficiency upgrades; where large geothermal systems are not viable. Hybrid systems incorporate geothermal loops coupled with down-sized conventional heat rejection or addition equipment (tower or boiler). In a hybrid system the boiler or tower are added to a down-sized geothermal loop to handle the peak loads over a short period of the season.

Open loop systems use the natural thermal stability of a plentiful supply of ground water. Less excavation is required with open loop systems, reducing initial installation costs. Ground water can be returned to the water table with no harmful environmental effect. Open loop systems use a well to supply entering water, and discharge is piped into a return well or into a suitable surface drainage area. Open loop ground water systems offer the advantages of high efficiency and low cost where conditions permit.

The earth itself is a vast reservoir of low temperature thermal energy that is renewed every day by radiant energy from the sun. WaterFurnace systems use the earth as a natural heat source of sink for heating and cooling. Earth coupled systems can be either horizontal or vertical, depending on available space and soil conditions. Horizontal ground loops are a series of parallel polyethylene pipes laid in trenches four to six feet below the surface and backfilled. Vertical loops are installed in bore holes 150 to 500 feet deep which are then grouted and sealed. When installed properly, ground loops are virtually indestructible.

Water is an excellent thermal medium, and when a pond or lake is near the building, it can be used as a free source of energy. In pond loop systems, coils of pipe are anchored to the bottom, enabling the system to extract heat from or reject it into the water as needed. Pond loops are an excellent and inexpensive choice in cases where a drainage pond is required or built for aesthetic reasons. In fact, WaterFurnace's 115,000 square-foot corporate headquarters and manufacturing facility in northern Indiana is entirely space conditioned by a 200 ton pond loop system.



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