



ColdClimate™ GeoSource® Heat Pumps **FOR THE HARSH REALITY.**



ECONAR®

The Leader in ColdClimate™ Geothermal Technology.

ALL IT TAKES IS A LITTLE ELECTRICITY TO MOVE IT. NOT MAKE IT.

E•CON•AR® (Ē•kōn•är) derived from earths concentrated solar, is the leader in ColdClimate Geothermal technology.

You probably don't know it, but all the energy you'll ever need to heat and cool is literally in your own backyard; and since it's already yours, it doesn't cost you anything.

What's more, all you need to get at your own personal and inexhaustible energy is a ColdClimate™ GeoSource® heat pump. The most efficient way to heat and cool your home, school, office or church.

So stop paying more for propane, fuel oil or natural gas. Start saving money every month with a GeoSource.

**IT'S NOT THE
FIRST HEAT PUMP,
ONLY THE BEST.**

The GeoSource extracts its heat from below the earth's surface where the temperature remains constant year-round. Even cold air has heat in it, but it is far less efficient to extract.



Comfort is easily maintained with a thermostat.

With the GeoSource, a vertical or horizontal closed loop of pipe buried below the surface draws heat energy out of the ground.

Once the heat energy reaches the water heat exchanger, it is absorbed by an ecologically sound refrigerant,

which is compressed and rises in temperature to about 160°F. The heat is then absorbed by the air heat exchanger, from where a blower circulates it to each room. There is even enough energy left over to heat much of your hot water.

As for cooling, it is far better than a conventional central air conditioner. By simply reversing the process, heat is removed and you are left with a cool, dehumidified interior.

While energy efficient furnaces can be up to 98% efficient, the GeoSource can reach efficiencies of 300% to 400%.



You get more for your dollar with the GeoSource. Unlike conventional systems, it provides more energy than it uses.

THE DESIGN ADVANTAGES THAT MAKE THE GEOSOURCE A MODEL OF EFFICIENCY.

ECONAR is the only geothermal heat pump manufacturer using high-density air coil technology and electronic refrigerant control to achieve variable-capacity cooling. This allows the GeoSource to be sized to the heating load, allowing you output temperatures for heating of 5° to 10° degrees warmer than competitive systems making ECONAR #1 in comfort.



All ECONAR units use the Copeland® Compliant Scroll™ compressor, the quietest and most reliable anywhere. It's the one ECONAR counts on exclusively because of its superior engineering.

The earth loop is made of polyethylene tubing and fittings. This high-density tubing is extremely efficient and will provide many years of dependable service.

The GeoSource is linked to the earth loop with ECONAR's exclusive

PumpPAK®, which is one handy unit.



A GeoSource heat pump is easy to install. Its PumpPAK™ incorporates all pumps and valves into one unit.

In addition, every heat pump ECONAR manufactures is easy to install and easy to service. ECONAR designed all units to have easy access to all the components. All components can be reached by removing the front panel of the unit. All in all, you can't buy a better engineered heat pump.

In our state-of-the-art production facility, highly trained workers assemble every unit with care.



The Econar GeoSource system in this home is so efficient, it extracts all the energy needed to heat and air condition. The only cost is for the electricity to move it, not make it.



The 80,000-square-foot school in Onamia, MN, utilizes an Econar system with pipes sunk vertically. It has the capacity to extract 1.75 million BTU in the heating mode and has 230 tons of cooling capacity. Annual energy savings are tremendous.



Your new church can enjoy year-round comfort with the GeoSource Heat Pump, which will pay for itself through savings in heating and cooling costs.

ECONAR'S GEOSOURCE HEAT PUMP EXCEEDS INDUSTRY STANDARDS.

ColdClimate Technology was developed by ECONAR with the idea that the industry yardstick on energy performance was only a starting point. What we really wanted to offer was a heat pump that is not only better than a conventional system, but also ColdClimate optimized.

ECONAR manufacturers the only geothermal heat pump built to withstand the harshest weather conditions ranging from 110°F to -60°F. Other manufactured heat pumps are air conditioners that only provide some of the heating. ECONAR's units are designed to heat and cool up to 100% of the structure.

The Geosource is designed to extract the earth's energy at 25°F loop temperatures, the standard high efficiency geothermal heat pump can only extract the earth's energy at 32°F. This makes us the leader in ColdClimate Technology.

ECONAR offers you the most efficient, comfortable, reliable and quiet heat pump available today. With installations for both commercial and residential projects, with applications of forced air, hydronic and combinations, there is one to fit every need.

Your ECONAR heat pump comes with the best warranty in the industry. See warranty for details.

TALK TO YOUR ONE-STOP SOURCE.

Your local authorized ECONAR dealer can supply and install everything you need. Or call toll free 1-800-4-ECONAR for the location of your nearest dealer.

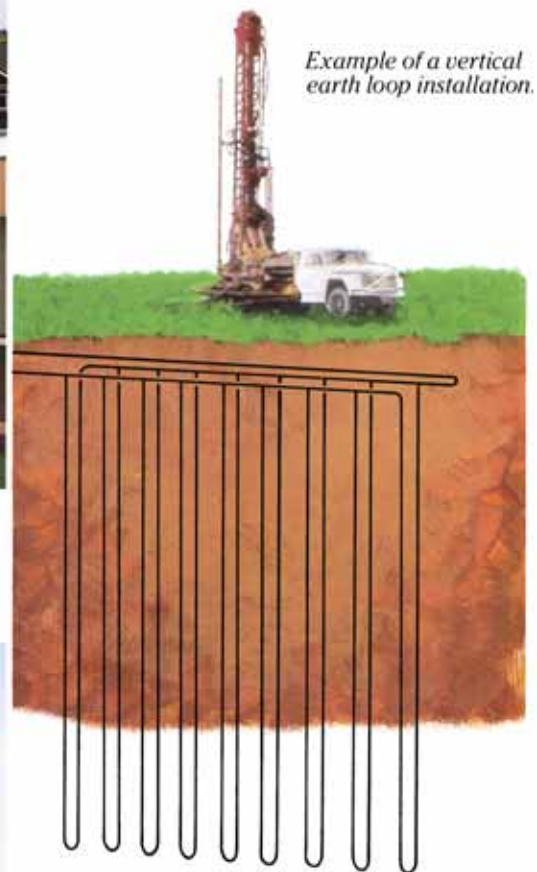


Piping is vital to the system, and Econar has developed the single-trench 'slinky' earth loop, which incorporates the OSU-designed 'slinky' concept. Plus it takes much less land area than more conventional pipe designs.

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Example of a vertical earth loop installation.



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Example of a multiple slinky trench.

A LOT GOES INTO MAKING THE GEOSOURCE DEPENDABLE.



GTF™ Geothermal Heat Transfer Fluid was developed to deliver exceptional efficiency.



All joints between the piping and fittings are heat-fused for worry-free service.



Econar is the only company to run-test every heat pump in simulated heating and cooling ASHRAE-designed conditions. We can alter air temperature, humidity and earth-loop temperature—even voltage—to simulate real-life operation.



On-site testing of piping under pressure detects any possible leaks, ensuring a worry-free loop.



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