

Geothermal Member Agreement  
introducing union rural electric geothermal rebate

# geo info pac



ALL GEOTHERMAL INSTALLATIONS MUST BE  
INSPECTED AND APPROVED.  
REBATE CALENDAR YEAR RUNS JULY - JUNE.





introducing our program

# geothermal rebate

URE NOW OFFERS A GEOTHERMAL REBATE program in which electric members will be eligible for up to \$800 in rebates for installing a qualified geothermal system. A geothermal system is a very efficient way to reduce energy consumption while still heating and cooling your home.

## Why would you choose a Geothermal System?

Efficiencies! A geothermal system uses the fairly constant 52 degree temperature of the earth to heat and cool your home, so it operates at maximum efficiency because the system is not working as hard during extreme temperatures. This super high efficiency can equal energy savings of up to 70 percent for heating and 50 percent for cooling.

## What about water heating?

Unlike any other heating and cooling system, a geothermal heat pump can preheat your hot water. this means sometimes you will use little or no additional energy to heat water. a device called a "desuperheater" transfers excess heat from the pump to the water heater. In the summer, hot water is provided with no additional energy usage and in the winter, water heating costs are cut roughly in half. Your HVAC contractor can tell you if this process will work with your water heater.

## How does this system work?

Geothermal systems heat and cool your home in an even fashion. They are clean, safe and quiet. The geothermal systems are all electric so there are no flames, flues, or fumes. Any home with a central duct system is a candidate for a geothermal system. There are a variety of ways to install an earth loop, even small loops for confined areas. The piping is underground or underwater, so there is little maintenance required. Occasional cleaning of the heat exchanger coils and changing the air filters are about all that's necessary to keep the system in good running order.

## How do I get the rebate money?

Contact URE member services prior to the installation of your geothermal system to receive a Geo-Info packet to review. There are two forms that must be completed and returned - the Appliance Rebate form and the Member Agreement form. URE member services representatives will gladly assist you with these forms. URE requires a geothermal system site inspection. After all requirements have been met, your rebate application will be processed and a \$800 rebate check will be issued to you. Maximum \$1,600 two rebates. Limit 2 units per residential member.

## From whom may I purchase the geothermal?

An increasing number of heating and cooling dealers sell and install geothermal systems. We suggest you contact a Geothermal HVAC contractor from our list. A good rule of thumb is to meet with the HVAC contractors then obtain three estimates to determine your best deal. Be sure to ask for references! URE members are encouraged to read our booklet called, "Questions to ask when replacing your HVAC." You may download a copy from our energy advice webpage: <http://ure.com/residential/energy-advisor>.

## More questions?

Call Member Services at 800.642.1826



introducing geothermal rebate

# geo information

The new installation of a Geothermal heating and cooling system in a residential home which uses electricity from Union Rural Electric (URE) qualifies for a geothermal rebate from URE. The system may serve either a new or existing residence.

The purpose of the requirements which follow is to aid URE in inspecting and verifying the geothermal heating and cooling system's eligibility for a rebate from URE.

## A. SPECIFIC REQUIREMENTS

### 1. Qualified Equipment and Installation

- a. Equipment shall be rated by ARI (Air-Conditioning & Refrigeration Institute) test standards and certified by ARI or CSA (Canadian Standards Association) or other nationally recognized testing organizations.
- b. Equipment installed shall be in compliance with ENERGY STAR® requirements for both EER and COP minimums *at the time of installation*. This will ensure systems will meet requirements for Federal tax credits for geothermal system installation.

REQUIREMENTS EFFECTIVE JANUARY 1, 2012	EER	COP
Closed loop water-to-air	17.1	3.6
Open loop water-to-air	21.1	4.1

NOTE: See [www.energystar.gov](http://www.energystar.gov) for minimums for water to water or DGX system qualifications.

- c. The complete system, including any necessary supplemental devices, shall be listed by Underwriters Laboratories or other nationally recognized testing organizations in accordance with U.L. standards.
- d. The installer should be a contractor registered with URE.
- e. The system must include properly-sized duct work per home's load calculation. Member/Contractor must have all local agency permits/inspections performed.
- f. The Geothermal Member Agreement must be signed by the member.
- g. The system shall be wired according to the Cooperative's requirements and in compliance with the National Electric Code and local or Ohio Electric Code requirements.
- h. Open loops shall be installed in accordance with manufacturer's specifications and recommendations and shall meet applicable Federal, State or local county agency standards. Open loop installations shall also

have documented water quality and quantity tests conducted by the installer, distributor or manufacturer evidencing the suitability and availability of water required for the application.

- i. Closed loops shall be installed in accordance with manufacturer's specifications and recommendations and shall meet applicable Federal, State or local agency standards.
  - j. Direct Expansion loops shall be installed in accordance with manufacturer's specifications and recommendations shall meet applicable Federal, State or local agency standards.
  - k. Ground loops should be installed by professionals who follow procedures established by the International Ground Source Heat Pump Association (IGSHA).
2. The HVAC contractor shall provide to the member, as part of the sales-installation agreement:
- a. Owner's manual and instruction for equipment operation.
  - b. Installation instructions and warranties.
  - c. An offer for a maintenance/service contract.
  - d. Contractor shall also provide a sketch of the loop layout location in reference to existing buildings.
3. The participating HVAC contractor or member shall be required to submit to the participating Cooperative:
- a. A completed application for reimbursement.
  - b. Copies of equipment and duct sizing calculations.
  - c. Proof of passing local governmental HVAC inspection.

**ALL GEOTHERMAL INSTALLATIONS MUST BE INSPECTED AND APPROVED. REBATE CALENDAR YEAR RUNS JULY - JUNE.**



introducing geothermal rebate

# geo information

## A. ELIGIBILITY FOR REBATE

1. The building must be a residential structure which uses electricity from URE.
2. Rebate is to be paid to the URE member who owns the building.

## B. CONDITIONS OF REBATE

The Cooperative shall inspect the installation before issuing the rebate.

## C. REBATE

A rebate of \$800 will be paid to the member on the basis of one rebate for each unit installed. Maximum \$1,600 for two rebates per residential member.

## D. MISCELLANEOUS

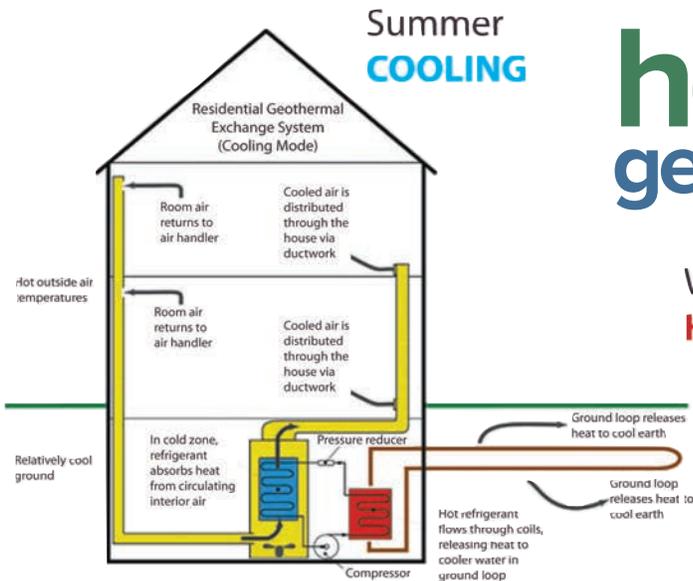
Thermal Envelope - Advising a consumer of the benefits to be gained from improving the thermal envelope of a structure house prior to the installation of qualified equipment is an essential part of the Geothermal Heating Program.

## E. ANNUAL PROGRAM REVIEW

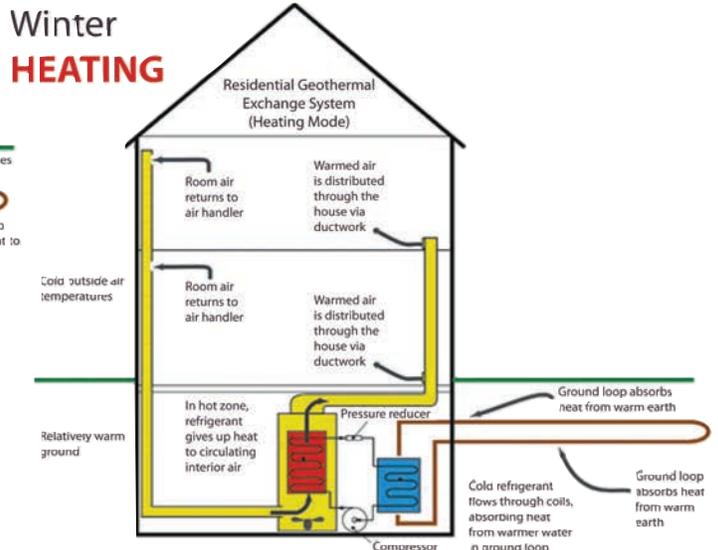
URE will annually review this program for continuation as applicable.

## F. SOFT START CAPACITOR

URE recommends that all geothermal systems have a soft start capacitor on their compressor systems. Failure to have this option may cause lights to flicker or other electrical issues that are beyond our control when the compressor starts up.



# how does geothermal work?



ALL GEOTHERMAL INSTALLATIONS MUST BE INSPECTED AND APPROVED. REBATE CALENDAR YEAR RUNS JULY - JUNE.

## Geothermal Member Agreement



# geo agreement

It is the joint interest of Union Rural Electric Cooperative (URE) and its electric members to reduce the demand for electricity and promote the use of high efficiency appliances. The Geothermal program is designed to aid all URE electric members by increasing the efficiency of your heating/cooling systems, as well as the efficiency of your cooperative. This is accomplished through the installation of a new Geothermal Heating and Cooling System. This system can provide more efficient use of energy and lower overall heating costs for our members while permitting more efficient usage of electric facilities by your cooperative.

The Cooperative will offer a geothermal system rebate to encourage the energy efficiency of an approved geothermal heating & cooling system. In order to qualify for the applicable Geothermal rebate, the member must agree to carry out the following criteria, insofar as it is applicable to his/her whole house automatic backup heating system.

1. The Geothermal system shall be subject to approval and control by the Cooperative in accordance with established rules, regulations and policies of the Cooperative and shall meet the following criteria:
  - 1.1 The backup heating system must be capable of maintaining the whole house at a minimum temperature of 65 degrees F for extended periods up to a week or more.
  - 1.2 A qualified Geothermal dealer must install the geothermal system. Only plastic pipe (such as polyethylene or polybutylene) may be used for a loop installation.
2. It is understood that the purchase, installation, maintenance, repair, operability, cost efficiency, merchantability and fitness for its purpose of any Geothermal add-on or conversion unit of any type is the exclusive responsibility of the member (purchaser) and the contractor thereof. The Cooperative does not make any representations or warranties (expressed or implied) regarding a geothermal add-on or conversion unit of any type.
3. A participating contractor will be obligated to provide the member with full operation instructions, owner's manual, all warranties, installation instructions and the calculations for sizing the equipment and any necessary ductwork.
4. This agreement remains in effect for twelve (12) years.
5. I, the Cooperative member, acknowledge and disclose that the \$800 geothermal rebate for my account is to be mailed directly to me, the Cooperative member. My heating and cooling contractor understands that I am to receive the \$800 geothermal rebate.

6. This agreement made and executed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_,  
between UNION RURAL ELECTRIC (URE) and:

---

Member's name printed

---

Member's signature

---

Account Number

---

Address

---

URE Cooperative authorized signature

Revised 10/2019

ALL GEOTHERMAL INSTALLATIONS MUST BE  
INSPECTED AND APPROVED.  
REBATE CALENDAR YEAR RUNS JULY - JUNE.