

Your guide to heating and cooling

AIR SOURCE HEAT PUMP (ASHP) SYSTEMS

- Come in a variety of configurations such as central ducted and ductless (mini-split)
- If you are switching to an ASHP from electric resistance heat or propane, you could save 30-55% on your heating costs.¹
- Achieve even greater financial savings when coupled with Nobles Cooperative Electric ASHP or dual fuel load management rates and programs
- ASHPs are measured by:
 - 1) Heat Seasonal Performance Factor (HSPF). HSPF/HSPF2 is the most commonly used measure of a heat pumps heating efficiency. The higher the HSPF/HSPF2, the more efficient the heat pump.
 - 2) Seasonal Energy Efficiency Ratio (SEER). The SEER/SEER2 rating most accurately reflects overall system cooling efficiency on a seasonal basis.
 - 3) Energy Efficiency Ratio (EER). EER/EER2 reflects the system's cooling energy efficiency at peak day operations.
- You can switch between cooling and heating directly from the thermostat, putting you in complete control.

CENTRAL AIR CONDITIONER (CAC)

- According to the Department of Energy installing a new CAC or ASHP unit with a SEER2 rating of 15.2 will provide a lifetime cooling energy cost savings of \$927²



CAC AND ASHP TUNE UP

- The best way to ensure efficient operation of your cooling or heat pump system is by having a tune-up every two years.

ELECTRONICALLY COMMUTATED MOTOR (ECM) FOR YOUR FURNACE

- ECMs are standard in new construction. Rebates are available only for replacement.
- ECM furnace motors help save energy and money by running at the best speed, opposed to traditional motors that always run at top speed.
- Furnaces equipped with an ECM have lower annual operating costs and can save you up to \$410 per year³

GROUND SOURCE HEAT PUMP (GSHP)

- The most efficient residential heating and cooling system available today⁴.
- Geothermal systems can reduce energy consumption by approximately 25% to 50% compared to air source heat pump systems⁴.
- Geothermal heat pump systems have an average 20+ year life expectancy for the heat pump itself and 25 to 50 years for the underground infrastructure⁴.

¹ Center for Energy and Environment (CEE) "Cold-Climate Air Source Heat Pumps" article – <https://www.mncee.org/cold-climate-heat-pumps>

² U.S. Department of Energy "Purchasing Energy-Efficient Residential Central Air Conditioners" <https://www.energy.gov/femp/purchasing-energy-efficient-residential-central-air-conditioners>

³ American Council for Energy Efficient Economy (ACEEE) study "Electricity Savings from Variable-Speed Furnaces in Cold Climates" (Based on \$0.12 per kWh and ECM kWh savings identified in – Table 1) https://www.aceee.org/files/proceedings/2004/data/papers/SS04_Panel1_Paper23.pdf

⁴ U.S. Department of Energy Guide to Geothermal Heat Pumps – https://www.energy.gov/sites/prod/files/guide_to_geothermal_heat_pumps.pdf

 **Choosing higher efficiency heating and cooling equipment can have a big impact on your comfort while helping you save money.**

Heating and Cooling

Rebate Application



Nobles Cooperative
Electric

Member Information

Name _____ Account # _____

Address _____

City _____ State _____ ZIP _____ Phone _____

Member Type ☐ Homeowner ☐ Renter ☐ Landlord ☐ Builder ☐ Other

By signing this application, I certify the appliances for which I am claiming a rebate are qualifying products and are installed at the address listed above which represents a valid cooperative account.

Signature _____ Today's date _____

Equipment Information – ASHP & CACs

To qualify for an ASHP or CAC rebate this equipment must be installed by a “quality installation” (QI) certified contractor. The rebate form is provided by the contractor.

ECMs

Replacement furnace with ECM Motor qualifying criteria – must be ENERGY STAR listed

Manufacturer _____ Model Number _____

Serial Number _____ AHRI Number _____

GSHPs*

Ground Source Heat Pump (GSHP) qualifying criteria – must be ENERGY STAR listed

Manufacturer _____ Model Number _____

Heating Capacity (tons) _____ Cooling Capacity (tons) _____ (1 ton = 12,000 Btuh)

Rated COP _____ Rated EER _____

Replacement Type ☐ Replace on Fail ☐ Early Retirement ☐ New Construction

Existing Unit Type (required if Replace on Fail or Early Retirement) ☐ Ground Source Heat Pump

☐ Electric Heat with Split System AC

Replacement Unit type ☐ Closed Loop Water-to-Air ☐ Open Loop Water-to-Air ☐ Closed Loop Water-to-Water

☐ Open Loop Water-to-Water ☐ Direct Geexchange (DGX)

*Contractor information is required for Tune Ups & GSHP master installer rebates.

Heating and Cooling

Rebate Application



Nobles Cooperative
Electric

CAC and ASHP Tune-Ups*

Manufacturer _____ Model Number _____ Serial Number _____

Equipment Type ☐ ASHP ☐ AC

Cooling Capacity (Btuh) _____ Heating Capacity (Btuh) (ASHP only) _____

Equipment Rating Information

SEER/SEER2 Rating (leave blank if unknown) _____

☐ SEER ☐ SEER2

EER/EER2 Rating (leave blank if unknown) _____

☐ EER ☐ EER2

HSPF/HSPF2 Rating (ASHPs only) _____

☐ HSPF ☐ HSPF2

Quantity _____

Compressor Type ☐ Variable-Speed ☐ Single-Speed

I certify that I have completed the following actions:

- ☐ cleaned condenser coil
- ☐ changed filter
- ☐ measured refrigerant, recharged as needed
- ☐ measured air flow, corrected as needed

Contractor Information*

Contractor Name _____ City _____ State _____

Contractor signature _____ Contractor company _____

*Contractor information is required for Tune Ups & GSHP master installer rebates.

IMPORTANT:

- Check with cooperative for qualifying rebate amounts.
- Product(s) must be installed within the cooperative's service territory.
- Include a copy of the original dated sales receipt(s).
- Submit completed rebate form and a copy of the original sales receipt within 90 days of purchase date.
- To verify specific model efficiency ratings or ENERGY STAR certification status please visit the following resources
 - Ductless ASHPs – <https://www.ahridirectory.org>
 - Replacement furnaces
 - <https://www.energystar.gov/productfinder/product/certified-furnaces/results>
 - <https://www.ahridirectory.org/Search/SearchHome?ReturnUrl=%2f>
 - GSHPs – <https://www.energystar.gov/productfinder/product/certified-geothermal-heat-pumps/results>

Rebate program is subject to change or cancellation without notice. Call the cooperative to verify rebate program status

Notice: On January 1, 2023 the Department of Energy (DoE) began using a new testing procedure to rate the efficiency of air conditioners and air source heat pumps. These changes require new metrics (SEER2/EER2/HSPF2) that were derived from the DoE's new test procedure (M1) rather than the historical metrics (SEER/EER/HSPF) from the old test procedure (M).

The simple conversion table below will help you to identify air conditioning (AC) and air source heat pump (ASHP) equipment that qualifies for ENERGYWISE rebates in 2026 using the following steps.

Step 1: Determine what ratings system was used for the equipment model that you plan to purchase.

Step 2: Confirm that the efficiency ratings of the new equipment exceeds the requirements for the rebate measure you are applying for using the table below to convert between the old and new efficiency ratings when needed.

SEER	DUCTED SEER2	DUCTLESS SEER2
14.0	13.4	14.0
14.5	13.8	14.5
15.0	14.3	15.0
15.5	14.8	15.5
16.0	15.2	16.0
17.0	16.2	17.0
17.5	16.7	17.5
18.0	17.2	18.0
19.0	18.1	19.0
20.0	19.0	20.0

EER	DUCTED EER2	DUCTLESS EER2
10.2	9.8	10.2
11.0	10.5	11.0
11.5	11.0	11.5
11.7	11.2	11.7
12.0	11.5	12.0
12.2	11.5	12.2
12.5	12.0	12.5
13.0	12.5	13.0

HSPF	DUCTED SPLIT HSPF2	DUCTED PACKAGE HSPF2	DUCTLESS HSPF2
8.0	6.8	6.7	7.7
8.2	7.0	6.9	7.9
8.8	7.5	7.4	8.4
9.0	7.7	7.6	8.6
9.5	8.1	8.0	9.1
10.0	8.5	8.4	9.5
11.0	9.4	9.2	10.4

NOTE: The cross references for efficiency in the above tables should be noted as approximate.

Rebate program is subject to change or cancellation without notice.

Residential Quality Installation (QI) Program

QI Certified Contractors:

A QI certified contractor has passed a QI assessment and/or is North American Technician Excellence (NATE) installation certified and have agreed to following industry best practices regarding the proper installation of equipment.

This program validates four components of the installation: proper sizing, airflow, refrigerant charge and duct leakage.

Equipment purchased from and installed by non-QI certified contractors is not eligible for the rebate.

A list of QI certified contractors can be found at https://hvacree.net/gre/public_search.cfm. Information on how to be a certified contractor or ordering forms can be found at <https://greatriverenergy.com/smart-energy-use/installations/>.

Rebate Details:

Rebate amounts vary depending on the efficiency rating, the type of equipment and whether there is a special promotion going. Contact your electric cooperative for specific rebate details and availability. This rebate program is subject to change without notice.

Qualifying Members:

Members applying for the rebate must be a member of and receive residential electric service from one of Great River Energy's participating cooperatives.

Members are responsible for meeting all of the program requirements, and for complying with any government or third-party requirements, including applicable codes, ordinances, rules or regulations regarding the installation of the equipment.

Qualifying Equipment:

Equipment must be a new, high efficient central air conditioner or air source heat pump with an efficiency of 15 SEER/14.3 SEER2 or higher. The system must be matched meaning the outdoor condenser unit and the indoor evaporator coil were designed by the manufacturer to work together. No commercial, mini-split (ductless), reconditioned, or ground source heat pumps qualify for the QI rebate program.

Only equipment listed on the Air-Conditioning, Heating & Refrigeration Institute (AHRI) website (www.ahridirectory.org-residential) will qualify. The AHRI list is dynamic and changes frequently, therefore AHRI certificates that are printed within two weeks of the installation date will be honored and must be submitted with the rebate form.

The use of the furnace's variable speed fan to increase the SEER/SEER2 rating above the nominal rating will be allowed for determining rebate eligibility provided the furnace was installed within one year prior to the central air equipment purchase.

Application Details:

Rebate form must be completed, signed by contractor and submitted to the electric cooperative along with the following:

- Equipment invoice, all information on the invoice must precisely match the information on the rebate application or the application will not be processed
- AHRI certificate for installed equipment

An application that is denied due to equipment ineligibility will not be accepted with changed model numbers.

If conditions do not allow for proper testing (see equipment testing section below), the member will be eligible for the rebates as long as testing is completed and application submitted by July 31 of the following year.

It is the member's responsibility to ensure that the electric cooperative receive the rebate application materials. The electric cooperative is not responsible for any lost, late, stolen, ineligible, illegible, misdirected, or "postage due" mail. All completed submissions become the property of the electric cooperative and will not be returned. Warning: Fraudulent submission of the form may result in prosecution for mail fraud pursuant to Title 18 US Code sections 1341 and 1342.

Testing the Equipment:

The contractor must activate the system and perform the appropriate tests for airflow and refrigerant charge. These tests can only be conducted when the outdoor (ambient) temperature meets the manufacturer's specifications. Rebate applications may not be submitted until testing is complete.

Liability:

By participating in this program, the member agrees that the electric cooperative has no liability concerning the quality, safety and/or installation of the equipment, estimated energy savings, workmanship of any third parties, or use of any equipment. The electric cooperative shall not be liable for the work performed by the members engineer, contractor or vendor. Participation by a contractor in this program does not constitute an endorsement by the electric cooperative of the contractor, or a guarantee of the quality of the work.

The electric cooperative is not responsible if the heating and cooling contractor, retailer, builder or any other party provides the member with inaccurate information about the amount or qualifications of the actual rebate. The electric cooperative will not rebate equipment that has been mislabeled or misrepresented.