ENERGY WISE FOR YOUR HOME

Your guide to heating and cooling

AIR SOURCE HEAT PUMP (ASHP)

- It's the best of both worlds. ASHPs provide home cooling and supplemental heating with 72% less electricity than conventional air conditioners and furnaces.
- 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.

BROWN COUNTY REA

Brown County Rural Electrical Association (REA)
24386 State Hwy 4, PO Box 529
Sleepy Eye, MN 56085
800-658-2368 507-794-3331
www.browncountyrea.coop

CAC AND ASHP TUNE UP

- The best way to ensure efficient operation of your cooling system is by having a tune-up every two years.
- A tune-up by a service expert can improve your unit's efficiency by as much as 20% and extends equipment life.
- Equipment must be at least three years old and not received a tune-up rebate in two years to qualify.

DUCTLESS/MINI-SPLIT ASHP

- Use 60% less energy than standard home electric resistance-based heating systems, because they transfer instead of generate heat.
- Use sophisticated compressors and fans that can adjust speeds to save energy. You can cut cooling costs by 30% compared to conventional room air conditioners.
- To qualify for a rebate this equipment must be Energy Star certified.

ELECTRONICALLY COMMUTATED MOTOR (ECM) FOR YOUR FURNACE

- ECMs are standard in new construction. Rebates are available only for replacement.
- ECMs 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 $40 to $300 per year depending on how you use the furnace fan.

GROUND SOURCE HEAT PUMP

- The most efficient residential heating and cooling system available today.
- Provide energy savings of 20-50%, which results in recouping your investment in only a few years.
- Heating efficiencies 50-70% higher than other heating systems and cooling efficiencies 20-40% higher than available air conditioners.

"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

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 – TUNE UPS, ECMS AND GSHPS, DUCTLESS ASHPS

Cooling Equipment Tune Up

Equipment Brand _____ Model Number _____ Serial Number _____

Approx. age of unit _____ yrs. Size in tons_____HSPF2/SEER2 rating _____

For Central Air or ASHP Tune Ups:

I certify that I have completed the following on this unit.

☐ clean condenser coil & check belt, if needed ☐ test all controls & blow out drain lines

☐ check coolant level & lube motor, if needed ☐ check indoor furnace filter & educate homeowner on system operation

☐ check coolant pressure visually & inspect entire system

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

Model Number _____

Serial Number _____ AHRI Number _____

Manufacturer _____

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

Manufacturer _____ Model Number _____ Tons _____

HSPF2/SEER2 rating _____ AHRI Number_____

Backup heat source: Electric resistance ____ KW___ Fossil fuel (LP, fuel oil, natural gas)____

Contractor Name _____ City _____ State _____

Contractor signature _____ Contractor company _____

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) and AHRI certificate.
- Submit to: Brown County REA, PO Box 529, Sleepy Eye, MN 56085 Email m.solie@bcrea.coop FAX 507-794-4282

- To verify specific model efficiency ratings or ENERGY STAR certification status please visit the following resources

  Ductless ASHPs – https://www.ahridirectory.org/Search/SearchHome?ReturnUrl=%2f

  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

800-658-2368 or 507-794-3331

Air Source Heat Pumps & Hybrid Systems

BROWN COUNTY REA

Rebate Application

MEMBER INFORMATION

Name _____ Account # _____

Address _____

City _____ State _____ ZIP _____ Phone _____

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

EQUIPMENT AND INSTALLATION INFORMATION

High Efficiency Tier ☐ 14.3 SEER2 7.5 HSPF2 ☐ Load-controlled,non-electric back-up ☐ Not load-controlled

Premium Efficiency Tier ☐ 16 SEER2 8.5 HSPF2 ☐ Load-controlled,non-electric back-up ☐ Not load-controlled

ASHP alternate/backup heating system type _____ Electric Resistance _____Total KW _____ Propane/Nat Gas/Fuel Oil

Manufacturer_____ Heat pump AHRI number _____

Condenser model number _____ Condenser serial number _____

Evaporator coil model number _____ Evaporator coil serial number _____

Furnace model number (if new) _____ Furnace AHRI number _____

Installation date _____ Startup/testing date _____ Outdoor temp* _____ ° F

* Follow minimum as set by manufacturer

EQUIPMENT VERIFICATION

A completed load calculation is on file (initial here) _____

- The outdoor unit is matched to the appropriate indoor coil. AHRI reference number _____ (initial here) _____
- Airflow is appropriate for the installation. (initial here) _____
  Airflow depends on the manufacturer, and should not be too high or too low – approximately 300 – 400 CFM per ton of cooling capacity.
- Refrigerant charge has been tested and found to be appropriate for the installation. (initial here) _____
- **Total size of the system in tons.** (initial here) _____

CONTRACTOR INFORMATION

NOTE: An invoice showing the purchase date, equipment manufacturer, model numbers and serial numbers along with the AHRI certificate must be submitted with the application.

Contractor Company Name _____

Installation Technician _____ Phone _____

HVACR Contractor ID # _____ OR NATE Certification # _____

I hereby certify that all information is accurate, including claims of efficiency, size and member information.

Contractor Signature _____ Date _____

Heating and Cooling

2025 Reference and Conversion Sheet

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 2025 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.

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