

2009

Residential High Efficiency Heat Pump Incentive Program High Efficiency Heat Pump - Incentives			
System Type	Incentive Criteria – ENERGY STAR Qualified	Who Gets the Incentive	Rebate Amount
Air Source HP	14 SEER & 8.2 HSPF	Homeowner	\$ 200
Air Source HP	15 SEER & 8.2 HSPF	Homeowner	\$ 250
Air Source HP	16+ SEER & 8.2 HSPF	Homeowner	\$ 300
Water or Ground Source HP	Any EER	Homeowner	\$ 400
- For Dealer (installation contractor) Only -			
ENERGY STAR Qualified HP Installation	Operates within 10% of Mfg. Specifications	Dealer	\$ 100 Paid by Nebraska Public Power District

****Participation in the Board of Public Works load management program is required for at least three years.**

Qualifying systems include:

- New Construction
- Conversions (to electric heat from a fossil fuel heating system)
- Upgrades (existing heat pump to a new heat pump)

2009 Residential High Efficiency Heat Pump Program Guidelines

The following guidelines will generally apply. Exceptions will be handled on a case-by-case basis.

1. All space heating equipment must be permanently installed in a residential single family dwelling. A mobile home must be on a permanent foundation.
2. Qualifying equipment is ENERGY STAR qualified equipment which requires 14 Seasonal Energy Efficiency Ratio (SEER) and 8.2 Heating Seasonal Performance Factor (HSPF), or higher (ARI listed). This is the minimum efficiency level for both the homeowner and dealer (installing contractor) incentive.
3. An incentive payment will be paid to the owner of a residence after the equipment is installed, operating, and performance verification has been submitted by the dealer. No incentive(s) will be paid without the completion of the application form, which requires that a performance verification be conducted on the system. The application form must then be signed by both the dealer and the homeowner. This form will then be submitted to the Beatrice Board of Public Works.
4. If the system is operating within 10% of manufacturers specifications for the test conditions, the system is assumed to be installed and operating correctly – thus “passes”. For systems that pass, both the homeowner and the dealer is eligible for the incentive. If the system is not operating within 10% of manufacturers specifications, it does “not pass”, which may be the case with some existing home installations. In these situations, the homeowner is still eligible for their incentive as they chose higher efficient equipment, but the dealer is NOT eligible for their incentive.
5. The incentive payment to the homeowner will be applied as a credit on their monthly electric bill. The incentive payment to the dealer will come from Nebraska Public Power District and they will be paid once a month for the qualifying systems that have been submitted through the Board of Public Works. Accompanying the payment to the dealer will be a report providing information about the qualifying system information, such as; customer name, address, and electric utility involved, etc.
6. For duplexes and condominiums that are separately metered, they will be considered residential, thus requiring two separate applications. If they are master metered, they are considered multi-family and not eligible. Apartments are considered multi-family.

7. "New" refers to new construction with new equipment.
"Conversion" means that the primary source of heat had been a fossil fuel system.
"Upgrades" refers to the installation of new equipment in which the system being directly replaced is currently a heat pump.
8. In those cases where combinations of two or more heat pumps are installed in the same house, both or all are eligible for the full incentive amount. The dealer is also eligible for their incentive if the system qualifies and passes.
9. If electricity is the primary source of heat for a residence, the use of solar panels, wood stove or fireplace will not affect the eligibility for a space heating incentive payment.
10. Additions and supplemental systems are not eligible for incentive payments unless they are large enough for their own dedicated heating and cooling system.
11. Package Terminal Heat Pumps (PTHP's) are not eligible. Only split system heat pumps with a ducted supply and return system and the duct-less mini-splits are eligible.
12. "Dealer" is the term used in this document to identify the installing contractor. Most often this will be the heating and cooling contractor that performs the load calculation, sizes the system, installs it, and performs the verification test. Final determination will be made by the Board of Public Works.
13. The Beatrice Board of Public Works reserves the right to do random spot checks of the performance verifications to ensure program compliance. In situations where dealers submit applications that are incorrect or fraudulent, the Board of Public Works has the right to cease participation of that dealer - in dealer and customer programs going forward.
14. The Board of Public Works will make final determination of program compliance decisions and reserves the right to cancel the program with a 30 day notice.
15. Participation in the Board of Public Works load management program is required for at least three years.
16. A receipt showing proof of purchase must accompany each application form.
Rebates will be issued as a credit on a Beatrice Board of Public Works customer's account, not as a check.

For program compliance questions or concerns, contact:
Beatrice Board of Public Works
Office – 402-228-5211, Email – billing@bpw.ci.beatrice.ne.us

HIGH EFFICIENCY HEAT PUMP PROGRAM – APPLICATION FORM

Applications will only be processed if information is provided in all 7 sections and only if homeowner and contractor signatures are completed on this form. **A copy of the receipt or documentation from a dealer must accompany each application to receive the rebate.** Complete 1 form for each residential heat pump installation. Questions, please contact the Board of Public Works at (402-228-5211). Please return the completed application to Board of Public Works, PO Box 279, Beatrice NE 68310-0279

1. Name of HVAC Dealer: _____

Address & City _____

Phone Number: _____ Tax ID # _____

2. Home Owner's Name: _____

Home owner's Address _____

Installation Address: _____

Acct or Meter #: _____

Home Owner's Phone Number: _____

With the new installation, is your home all electric? Yes _____ NO _____

3. Equipment Information: Tonnage: _____ SEER Rating: _____ HSPF: _____

Backup for Heat Pump: Electric _____ (kw), or Fossil Fuel _____ (Btuh),

If it's a Geothermal Heat Pump - the (EER) _____

Equipment Mfr.: _____ Furnace Model No.: _____

ID Coil No.: _____ Heat Pump Model No.: _____

Type of Installation:

New Construction _____,

A/C to a Heat Pump _____,

Existing Heat Pump to New Heat Pump _____

4. Determine CFM: (A or B)

A) Total External Static Pressure in _____ inches of W.C.

_____ Equivalent CFM (per equipment specifications and associated external static pressure)

B) Airflow check – temperature rise method with electric furnace (test in emergency heat mode)

1) _____ Volts x _____ Amps = _____ Watts

2) _____ Watts x 3.414 = _____ Btuh

3) _____ Supply Air °F (minus) _____ Return Air °F = _____ Temp. Difference (TD) °F

4) _____ Btuh (divided by) 1.08 (divided by) _____ (TD) °F = _____ CFM

5. Measured Heat Pump Capacity Calculation (A or B)

A) **Heating cycle** (test in heat pump only mode)

1) _____ Supply Air °F (minus) _____ Return Air °F = _____ (TD) °F

2) 1.08 x _____ (TD) °F x _____ CFM (section 4) = _____ Btuh

B) **Cooling Cycle** (run at least ten minutes)

1) Return – wet bulb temp. _____ = Enthalpy _____

2) Supply – wet bulb temp. _____ = Enthalpy _____

3) Enthalpy Difference = _____

4) 4.5 x _____ CFM (section 4) x _____ Enthalpy Difference = _____ Btuh

6. Quality Assurance Inspection Results:

A) Measured Total CFM (section 4): _____ Outdoor Temp.: _____ Mfr's. Rated HP Capacity*: _____ Btuh

B) Measured Heat Pump Capacity (section 5): _____ Btuh

C) Difference between rated and measured capacity (rated-measured)/rated) = _____ % Passed (within 10%) or Failed

D) If failed – reason _____

E) Inspection Performed by: _____ NATE Certification # _____

7. I acknowledge that this installation is in compliance with the program guidelines.

Home Owner: _____
Print Name Signature Date

Contractor: _____
Print Name Signature Date