

# ENERGYWISE

for your Home



So often we take air conditioning for granted. When it's hot outside, we simply step into our comfortable air conditioned homes. However, when our air conditioner is not working – that's a problem. Whether you are looking for a new air conditioner because yours is broken, or if you are simply upgrading your older, inefficient system, your local electric cooperative is here to help you make the smartest decision and one that will get you the rebates you deserve!

## AIR CONDITIONING – DON'T TAKE IT FOR GRANTED!

Many ways to save through your electric co-op

Receive:

- \$50 – \$630 rebate based on SEER rating (13-16+) for installation of an Air Source Heat Pump (ASHP) by a registered\* HVAC or NATE-certified contractor
- \$50 rebate based on SEER rating (13-16+) by installing a high-efficient central air conditioning system by a registered HVAC or NATE-certified contractor
- \$35 rebate when you sign up for Cycled Cooling
- \$25 rebate for tuning up your existing air conditioner
- Energy credit on your electric bill

\* Note: A registered HVAC contractor is someone who is currently registered through HVAC Reduction.net. These registered contractors have agreed to the terms of the program and passed a test demonstrating their knowledge of quality installation practices. To find a registered contractor visit [http://www.hvacreduction.net/gre/public\\_search.cfm](http://www.hvacreduction.net/gre/public_search.cfm)

## Consider an air source heat pump (ASHP) instead of a central air conditioner

ASHPs act like a central air conditioner in the summer time, but they can also provide heating and cooling in one efficient and economical package that looks like a central air conditioning unit. When properly installed, an ASHP can deliver one and one half to three times more heat energy to a home than the electrical energy it consumes.

In the summer, ASHPs operate like a central air conditioner. In the winter, ASHPs can heat your home by transferring heat energy from the outside air and bringing it indoors.



Air source heat pump – cooling and heating in one efficient system

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## Your local electric cooperative is here to help you get the rebates you deserve

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### ENERGY STAR high efficiency central air conditioning

If you've talked with an energy expert at Nobles Cooperative Electric and have decided that an ASHP is not an option for you, then consider an ENERGY STAR high efficiency central air conditioner.

You may also be interested to know that many people buy an air conditioner that is too large, so make sure your unit is properly sized.

Source: ENERGY STAR.gov

In order to operate most efficiently, it is essential that your new central air conditioner or ASHP is installed correctly and according to manufacturer's specifications. Nobles Cooperative Electric's quality installation program validates four components of the installation: proper sizing, air flow, refrigerant charge and duct sealing.

### ENERGY STAR room air conditioning

ENERGY STAR qualified ductless heating and cooling systems are highly efficient products that deliver warm or cool air directly into different zones in your home, instead of routing it through ducts first. You may also hear them called mini-split, multi-split, or variable refrigerant flow (VRF) heat pump systems. They are an increasingly popular, cost-effective solution to replace inefficient baseboard electric heating and window air conditioners in older homes. They are also used in new construction, home additions, multi-family (condo or apartment) housing, and to improve comfort in poorly heated or cooled rooms.

### Air conditioner tune-up

The best way to ensure efficient operation of your cooling system is by having it tuned-up every two years. A tune-up by a service expert can improve your unit's efficiency by as much as 20 percent, extend its life and help protect our environment.

### What is cycled cooling?

Cycled cooling is for residential customers with central air or ASHPs. A radio receiver, which is installed on your house by the cooperative utilizes a radio signal to communicate with your air conditioner or ASHP. On hot, humid summer days (typically June through August) when demand for electricity peaks, a radio signal is sent to the radio receiver which tells your air conditioner or ASHP condenser to "cycle" on for 15 minutes and off for 15 minutes for up to six hours per day. (The number of controlled hours allowed per cooling season is 200 hours.) When electric demand decreases, the air conditioner or ASHP automatically returns to its regular cooling mode. Your central air conditioner or ASHP fan will continue to run even while the condenser is turned off, so you may not even notice the slight change in temperature that may occur.

### Cycling during the winter months

In the winter, your ASHP is supplemented with a non-electric, alternate heat source such as a natural gas or propane furnace for when the outside temperature drops below an outdoor set temperature – typically 20 degrees or so. Your supplemental heat source may also be asked to operate during peak electrical demands. While peak electrical demand periods generally occur only on the coldest days of the year, other periods of control may occur. During these times, a radio signal is sent to the radio receiver to automatically switch to the supplemental heat source. Typically the supplemental heat source may be required to operate 4 -10 hours per control period (number of controlled hours allowed per heating season is 400 in October through May). At the end of the control period, a second radio signal is sent to automatically switch heating back to the ASHP.

### Who can participate?

To qualify for these rebates, you must be a member of Nobles Cooperative Electric, live in the cooperative's service territory, and meet any of the specific requirements set for each rebate offering.

### CONTACT US

To save energy and money, call Nobles Cooperative Electric at 800-776-0517