

# THE BEST OF BOTH WORLDS

An Air-Source Heat Pump works as a more efficient central air conditioner during the warmer months and also provides supplemental heating in the spring and fall.

*Nobles Cooperative Electric makes it easy to save energy and money with an efficient Air-Source Heat Pump.*

**REBATES UP TO \$630**  
*based on your SEER rating*

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**SAVE UP TO 30%**  
*on your cooling costs*

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# AIR- SOURCE HEAT PUMPS



ENERGY WISE  MN

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SMARTER HOME SOLUTIONS



# IT CAN COOL, IT CAN HEAT

And it can save you energy and money.

An ENERGY STAR® Air-Source Heat Pump functions as a hyper-efficient central air conditioner as well as a source of supplemental heat. It can cool and heat your home while using 72%\* less electricity than conventional air conditioners and furnaces.

This eye-opening fact is especially important considering heating and cooling account for more than half the total energy consumed within a typical household.

An Air-Source Heat Pump can bring your home efficiency where it matters most, as well as superior comfort for you and your family.

## TYPICAL HOME ENERGY USE

Heating and cooling account for over half of the total energy consumed by an average household.

- 54% HEATING AND COOLING
- 22% ELECTRONICS
- 18% WATER HEATING
- 6% LIGHTING



UP TO **400%**  
MORE ENERGY EFFICIENT



\*Source: U.S. Department of Energy

## HOW IT WORKS

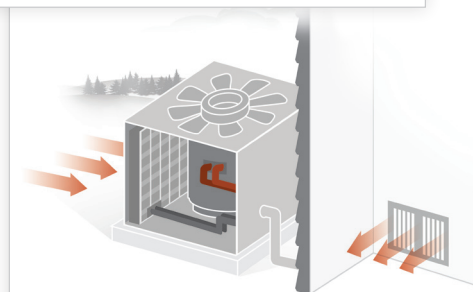
The fundamental operation of an Air-Source Heat Pump is based on moving heat to and from the outdoor air. When you need to cool your home, it pulls the heat directly from your indoor air, which it then pumps outside.

This process is reversed for the purposes of home heating. The pump doesn't create heat, instead it harvests heat from outside air even as cold as 25°, which it then transfers into your home so you can run your furnace less. In fact, with an Air-Source Heat Pump you may not need to run your furnace at all during spring and autumn. A conventional furnace or other heat source is still necessary during the coldest days of the year.

Air-Source Heat Pump owners are able to flip between heating and cooling from the thermostat.



**COOLING** Heat is transferred from indoor air to the outside.



**HEATING** Outdoor warmth is transferred into the home.

The ability to switch between air conditioning and heating is made possible thanks to a special valve inside the pump. A pump also contains two sets of coils, a compressor and a fan to circulate the cooled or warmed air, not unlike your refrigerator. The ability for an Air-Source Heat Pump to switch between air conditioning and heating is made possible thanks to a reversing valve that changes the direction of refrigerant flow.

## AIR-SOURCE HEAT PUMPS ARE SUPERIOR TO NATURAL GAS-FIRED FURNACES, OIL-FIRED FURNACES AND ELECTRIC RESISTANCE BASEBOARD HEATING SYSTEMS.

### ► HIGHER EFFICIENCY

You can save you up to 30%\* on your home cooling expenses by using an Air-Source Heat Pump instead of other conventional air conditioning units. They are also 200%-400% more efficient when it comes to home heating. This is possible because it uses advanced technology to transfer more energy than it consumes.

### ► EASY ON THE ENVIRONMENT

These units are super efficient and they cut down on the depletion of limited natural resources and their extended equipment life means less pollution associated with discarding old units or parts and manufacturing their replacements.

### ► A SAFE SOLUTION

Since Air-Source Heat Pumps operate without using an open flame, they don't create any products of combustion such as carbon monoxide and other emissions. No need for venting—or worrying.

### ► QUALITY CONTROL

The heat provided by an Air-Source Heat Pump is more moderate in temperature than air from conventional furnaces. As a result, the air rises more slowly, distributes more evenly and holds its moisture better. This makes for a better, more natural warmth for you and your family to enjoy.

### ► ADJUSTS AUTOMATICALLY

An Air-Source Heat Pump works with in tandem with your conventional gas furnace for home heating. The pump automatically selects the most ideal balance between the two heating sources to constantly maintain the most efficiently ideal heating combination based on your desired indoor temperature. It's like magic. Only real.

## CALL A PRO

To achieve maximum energy efficiency and to qualify for rebates and other incentives, use a certified contractor. You can find qualified installers by visiting [mnbrighterideas.com](http://mnbrighterideas.com)