



Air Source Heat Pumps (ASHPs)

What is great about Air Source Heat Pumps?

- **Proven technology** - Just ask your refrigerator if it works!
- **Energy efficient** - For every unit of electricity they use, an ASHP brings 2 to 2.5 units of heating energy into your home. This is possible because the electricity powers a refrigeration cycle that captures and transfers more heat from outside air than the energy it takes to run the heat pump.
- **Cost effective** - Because of their super energy efficiency, ASHPs are inexpensive to operate.
- **Air conditioning** - They give efficient, effective air-conditioning too for no extra cost.
- **Easy Installation** - ASHPs are easy to install with little disturbance to home or yard.
- **Adaptable** - They are highly modular and can be used equally well to heat the whole house, a new addition, or to supplement heating and cooling in an underserved room.
- **Whole home solution** - With proper design, they can supply 100% of the heating needed on the coldest winter days.
- **Combustion free** - Because nothing is burned in the home, heat pumps heat and cool while giving you the cleanest and healthiest air to breathe.
- **Climate friendly** - ASHPs can be run using renewable electricity and you are on the way to carbon neutral home heating and cooling!

Which kind of ASHP is right for you?

- **Ductless mini-split:** This has an outside unit that includes the compressor connected to an inside air handler that releases heat into the room. No air ducts are involved. There are single-zone and multizone types, depending on whether the application is room-by-room or whole home.
- **Centralized forced air:** ASHP units can also be connected to various kinds of ducted systems including centralized forced air.
- **Dual fuel:** A variation on centralized forced air is a 'dual fuel' unit which works in concert with a furnace that takes over at colder temperatures. HeatSmart encourages people to make a full conversion away from fossil fuels, but, if this is impractical, then the dual fuel units can be a very positive, cost-effective step with the added benefit of air-conditioning in the summer.

Can't decide? Let HeatSmart be your guide!



Can I afford an ASHP?

Air source heat pumps have never been more affordable!

New NYSEG rebates are:

- Whole-home systems: \$1,000/10,000 Btu/h system. (That's \$2500-\$6000 for a typical home)
- Modular applications: \$500/outside unit

HeatSmart grants available for income qualified through our partners at Sustainable Tompkins

Green Jobs - Green NY Special Financing:

For a limited time, to help the energy efficiency markets recover from the shut-down, **NYSERDA is offering 0%** financing for unsecured loans!



HeatSmartTompkins.Org

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