# Air Source Heat Pumps (ASHPs)

## What is great about cold-climate 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 airconditioning 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, a cold-climate ASHP 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 multi-zone 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 that works in concert with a furnace with integrated controls to use the most efficient system. We encourage 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 airconditioning in the summer.

Can't decide? Let us be your guide!



#### Can I afford an ASHP?

Air source heat pumps have never been more affordable!

**Federal tax credit:** 30% up to \$2,000 max. through 2032 (must have tax liability)

#### New NYSEG rebates are:

Whole-home system: \$800/10,000 BTUs (that's \$2,000-\$4,800 for a typical home) Opt.\$1,000/10,000 BTUs with integrated controls Opt. \$1,200/10,000 BTUs with old system decommissioned

#### **Municipal Electric IEEP rebates:**

- Whole-home system: \$1,200/system
- Partial-system: \$800/system

Green Jobs - Green NY Special Financing Additional Income Qualified Programs may be available - Just ask, we are here to support



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