



Solar electric heater

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For the last 10 years, I have successfully used a solar powered heater and the free sun's energy for space heating.

I'll explain how in a minute.

First, let's see how and where you can use solar space heaters, so-called "solar thermal air heaters".

By simply heating the air, you can accomplish the following:

For example, you can use solar powered space heater to heat air blown directly into the house's living spaces. This is called direct solar air heating.

The solar air heater will send heat into the house whenever the solar-heated air is warmer than the house.

You can also use solar air heaters to heat your house indirectly. For example, suppose you have an unheated basement or crawl space beneath your house. In that case, you can blow solar-heated air directly into the crawlspace or basement. The warm solar-heated air will rise up to heat the underside of the first floor. This is the simplest form of radiant floor heating and is one of the most comfortable and productive solar heat methods.

Another indirect use of solar heat is to use solar air heaters to provide solar-heated air to the outside unit of a heat pump. Using this approach causes the heat pump to work more efficiently and produce more heat with less electricity.

Suppose you operate bathroom fans, clothes dryers, kitchen exhaust fans, fireplaces, gas, propane, or oil water heaters. In that case, you can use your solar air heaters to preheat outside air that enters the house to feed these fans and fuel-burning appliances.

The solar air heater can blow warm solar-heated air directly into the living spaces to individual rooms or heat larger spaces. The solar air heaters are set up to pull fresh outside air in at one end and discharge warm solar-heated air at the other end.

The solar air heater is designed to deliver air about 40 degrees F warmer than the outside air. For example, on a 45 degree sunny day, the solar air heater will deliver air at 85 degrees. solar air heaters will deliver warm air suitable for Direct space heating during much of the heating season for many climates.

However, there will be days when the outdoor temperatures are colder than 35 degrees, there is a strong cold



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wind, or the skies are partly cloudy when the solar air heater outlet temperature is below 75 degrees. In these conditions, most people will find that the solar-heated air is not adequate for direct space heating and will rely solely on their conventional heating system. Fortunately, solar heated air from the solar air heaters is still useful for many Indirect Space heating applications, producing significant savings on heating bills.

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