Solar thermal air conditioning system

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Founded in 2005 as an Ohio-based environmental newspaper, EcoWatch is a digital platform dedicated to publishing quality, science-based content on environmental issues, causes, and solutions.

If you’re looking to keep cool this summer, you may be looking for a new air conditioning unit. Whether you’re looking for a standalone AC unit or a central heating, ventilation, and air conditioning (HVAC) system, choosing one of the best solar-powered AC units can help you reduce your carbon footprint and save money on utility bills.

In this article, we’ll go over the basics of solar energy AC units, including installation tips, the benefits of solar HVAC, information on the best solar-powered air conditioners on the market and frequently asked questions.

Air conditioners and HVAC systems remove heat from the air inside your home through cooling and recirculation, allowing hot air and moisture to be released outside. Solar AC units work similarly -- without driving up your electricity bills in the summer.

According to the U.S. Energy Information Administration, AC costs represent 12% of home energy costs in the U.S., ranging from 5% in very cold climates to 27% in hot-humid climates.

A residential cooling system can be used to lower the temperature of one or a few rooms in one’s house, or the whole house. Central air conditioning is used to cool the whole house, while a standalone AC unit is typically used for smaller spaces. According to the EIA, in 2015, about 60% of U.S. households relied on central air conditioning, while 23% used an AC unit; about 5% of households relied on both central HVAC and a supplementary AC unit.

Conventional air conditioner systems cost over $29 billion annually, according to the U.S. Department of Energy. What’s more, the DOE says AC units and systems release about 117 million metric tons of carbon dioxide into the atmosphere each year. This means that, despite their convenience, conventional AC units cause a good amount of air pollution, especially in hotter regions.

A solar AC unit is a good option for homeowners who don’t need a full solar panel installation, such as people with small roofs, who live in condos or who want solar-powered RV cooling. However, it may be more cost-effective for homeowners to install a whole-home solar AC system to get the best energy savings and a more substantial return on investment.

Interested in getting a full solar panel system installed for your home? Fill out the free, no-obligation form below to get a quote from a trusted solar installer in your area.

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If you’re ready to make the switch to clean energy, you’re probably wondering how to narrow down the best solar-powered AC unit for your home. Before you look at specific products, it helps to understand the different types of solar technology on the market.

The three main types of solar-powered air conditioners are direct current (DC) solar air conditioners, alternating current (AC) solar air conditioners, and hybrid solar air conditioners.

Direct and alternating current refers to the way energy flows: DC only flows in one direction, while AC changes direction often. These currents are often used in different applications. Home energy grids use alternating current, while batteries use direct current.

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