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Heating and Cooling Your Cabin

Heating and cooling news for your seasonal home.

By Janice Brewster



With heating and cooling gobbling up almost half the energy used in a typical U.S. home, finding the most efficient system to keep your cabin comfortable is important. If you're building or remodeling a vacation cabin or second home, giving some thought to efficient heating and cooling will make your getaway affordable for years to come. Most cabins use propane, natural gas, electricity or heating oil to operate their heating, ventilation

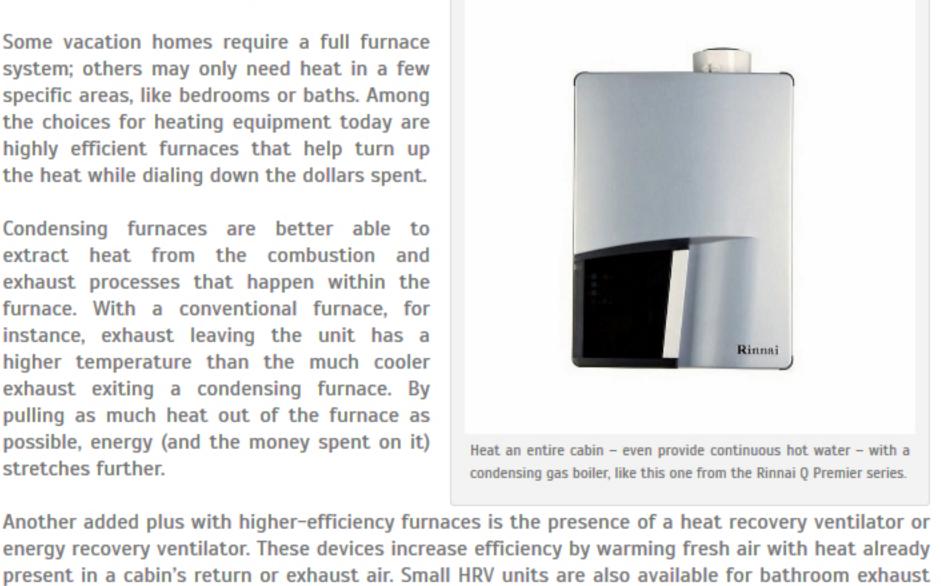
and air-conditioning (HVAC) systems. Your choice of fuel may depend on your cabin's location and the time of the year you are there. For summer camp owners, a wood stove or fireplace may be all that's needed to take the chill off

early and late in the season. Still, if your future plans might extend the length of your stays or if you're building with resale in mind, a more sophisticated HVAC system could be a wise choice. Hot trends in heating

Some vacation homes require a full furnace system; others may only need heat in a few

specific areas, like bedrooms or baths. Among the choices for heating equipment today are highly efficient furnaces that help turn up the heat while dialing down the dollars spent. Condensing furnaces are better able to extract heat from the combustion and exhaust processes that happen within the

furnace. With a conventional furnace, for instance, exhaust leaving the unit has a higher temperature than the much cooler exhaust exiting a condensing furnace. By pulling as much heat out of the furnace as possible, energy (and the money spent on it) stretches further.



fans. Finally, advanced gas valves in high-performance furnaces offer both high and low settings (or a range of settings) to adjust to the amount of heat needed. Older models have single-stage burners that are either on or off.

Radiant in-floor heating can be appealing in a cold-climate vacation home. "It's comfortable and low-maintenance," says George Woodcock of Rinnai, a heating equipment manufacturer. Using an energy-efficient condensing boiler to heat the water used in the in-floor heating helps conserve

energy. The same system can be used to provide hot water in a cabin, eliminating the need for a separate hot water heater. Make a hot spot

If you don't need a whole-house heating

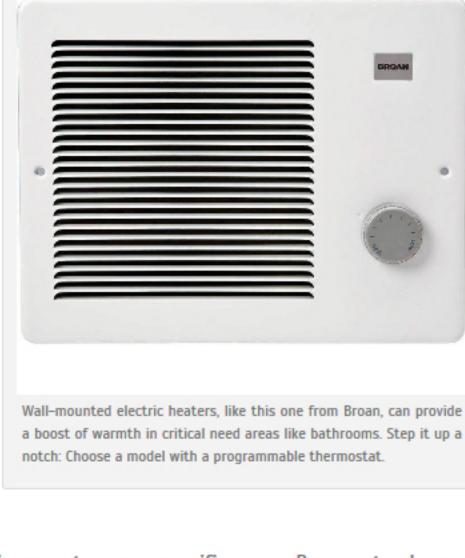
choose from among many types of standalone heating units. Direct-vent wall furnaces and vent-free fan convectors are just two options for bringing heat to specific spots. "Direct-vent wall furnaces can heat the largest home or a space like a basement, it

system for your vacation home, you can

Woodcock says. Vent-free units are bestsuited for smaller vacation homes or an area like a three-season room or porch, he says. These newer wall furnaces have built-in safety features and are controlled by a thermostat to keep an even temperature. A

depends on the heat load and location,"

gas line is all that's needed for installation. Some units can be powered by propane, as well. Wall-mounted electric heaters can be an effective way to warm specific areas. Be sure to choose a model that's properly sized for the square footage of the space to be heated. Look for traditional box-type or panel units with a programmable thermostat for efficient operation.



companies like Fujitsu, Mitsubishi and Sanyo – are gaining ground in North America. These systems can provide both heat and air conditioning; for more information about how they work, read "Cool it down," below.

Make it work If you have a ducted heating system already in place that may leave some rooms too cool and

others too warm, there are ways to help improve its efficiency.

Automated vents, like the Smart Vent from Keen, monitor the room temperature and air pressure, then redirect air by opening or closing vents to keep temperatures balanced throughout the home.

Each vent is powered by batteries. The Ecovent system operates with the use of sensors plugged in

to outlets in each room to measure temperature, humidity and air pressure. Based on these measurements, the system opens and closes vents as needed. Another efficient addition to an existing HVAC system is a programmable thermostat. These devices "learn" your heating and cooling preferences over time and automatically adjust your home's temperature accordingly. They can also be operated remotely with the use of a smart phone app,

allowing you to adjust your cabin's heating and cooling before you even arrive for the weekend.

Cool it down The decision to include an air-conditioning system in your cabin will depend on its location and

your personal preferences. For many cabin owners in the South and West, A/C is a necessity, not an option.

of ducts.

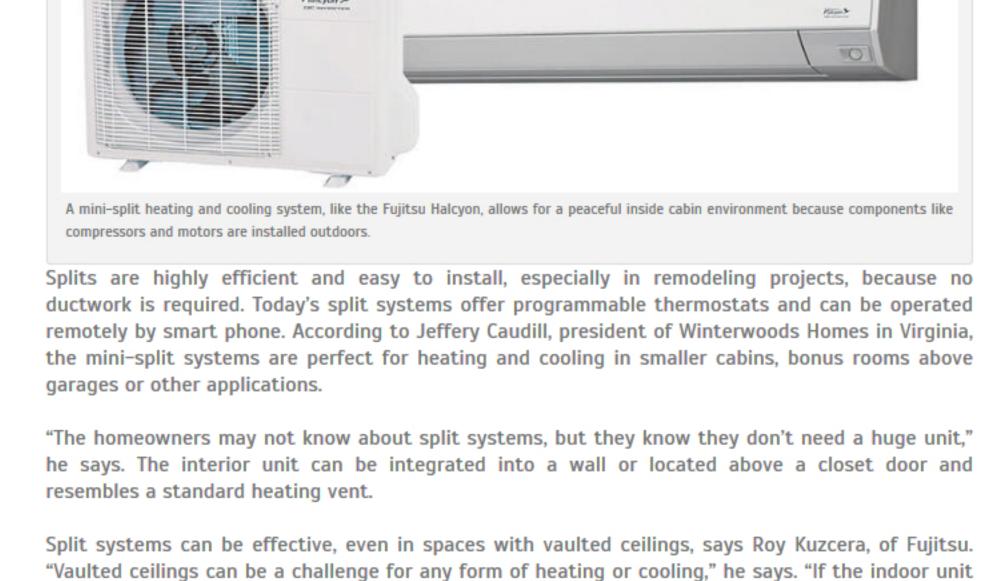
season."

A drawback of many whole-house ducted cooling systems is their lack of efficiency due in large part to leaky ducts that run through spaces in the home that aren't heated or cooled. Ductless cooling options offer better return on energy spent.

systems are different from a traditional window air-conditioning unit, where the evaporator, condenser and compressor are combined. The indoor and outdoor units are connected by a line that runs refrigerant to the indoor unit and a line that drains moisture from condensation back outside. The units can be used for zone cooling, allowing for individual temperatures while avoiding the use

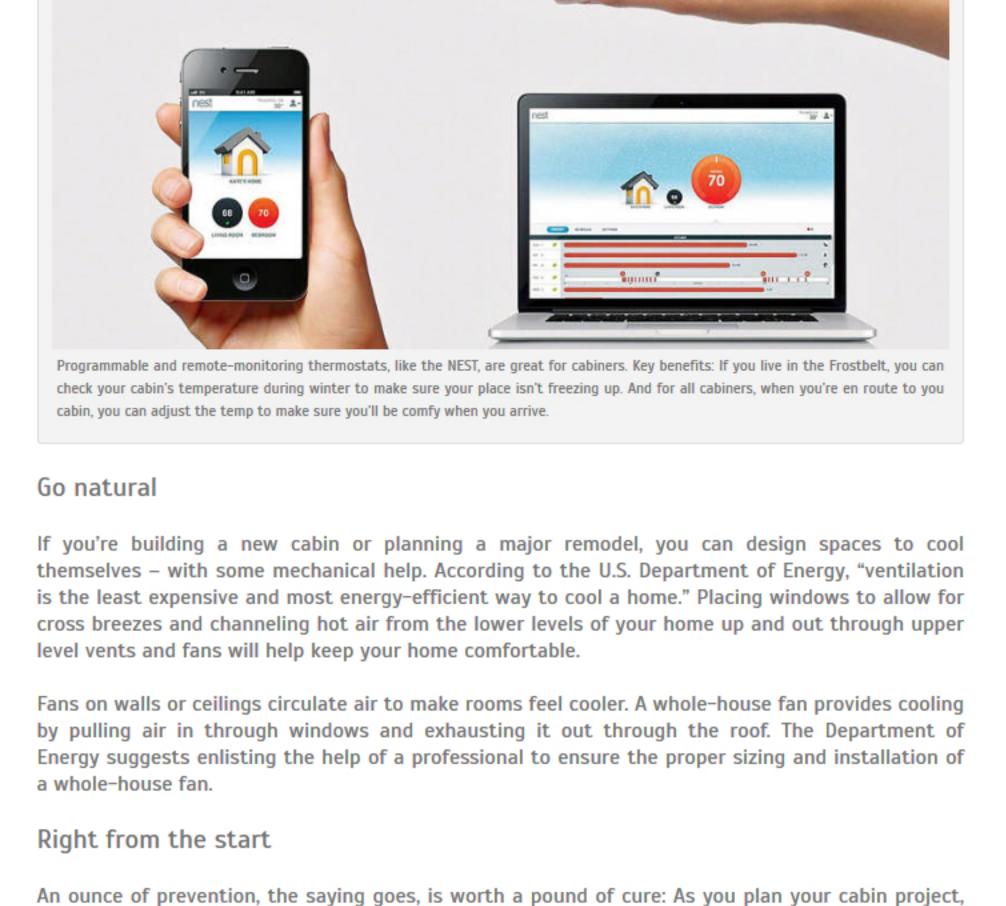
Split air conditioning systems are made up of an outdoor unit, which contains the condenser and

compressor, and an indoor unit that can be mounted on a wall or ceiling or set on the floor. These



A split system requires no special maintenance when used in a seasonal home. A cover can help protect the outdoor unit, Kuzcera says. Before closing up, he recommends running the system in heating mode. "This will dry out any moisture on the indoor coil before turning it off for the

is mounted correctly, a Fujitsu system should not have a problem heating or cooling the space."



make your cabin as weathertight and easy to heat and cool as possible. Working with your site, existing trees and available sunlight will go a long way in helping the HVAC system you choose save as much energy as possible.

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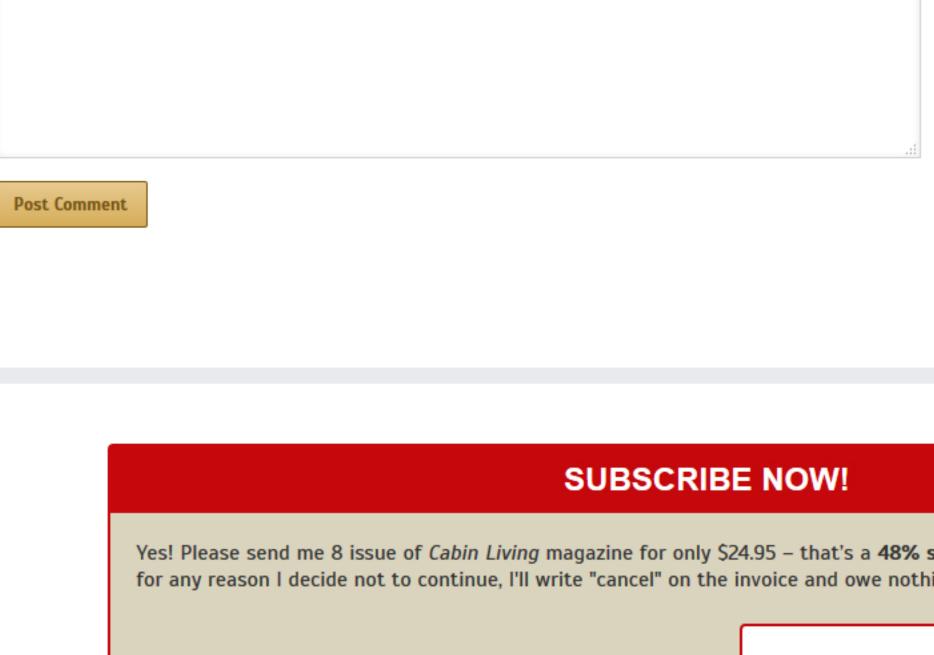
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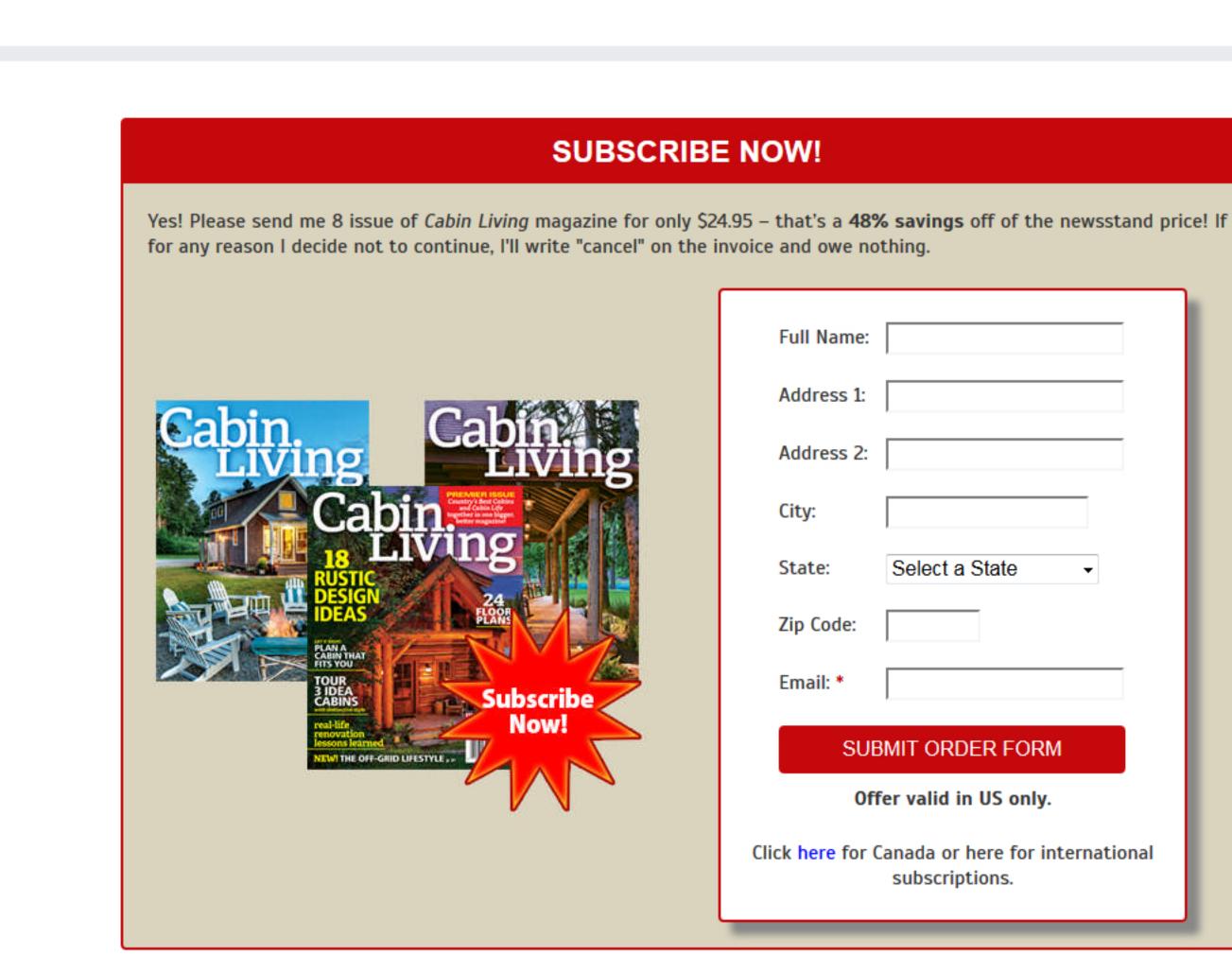
For writer Janice Brewster, cabin living requires a kayak, hiking boots and family to sit with around a campfire.

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remember that thorough insulation, quality windows and attention to construction detail will help

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