

KEEP COOL AT WORK

- Use ENERGY STAR® qualified office equipment (computer, printer, copier, appliance, lighting etc.).
- Insulate and seal ducts—air leaks account for about 30% of a cooling system's energy consumption.
- Turn off lights in unoccupied offices, cubicles, conference rooms and bathrooms.
- Activate computer power management features. Turn off monitors and other office equipment when not in use and at the end of the day.
- Strategically position window shades and louvers to block the sun and keep the office cooler.
- If you operate a commercial kitchen, align appliances with exhaust hoods to efficiently keep heat and smoke from spilling out and driving up cooling costs.
- Reduce the preheat time—few commercial kitchen appliances require more than 20-30 minutes.
- Avoid using space heaters as they will force the air conditioner to work harder.

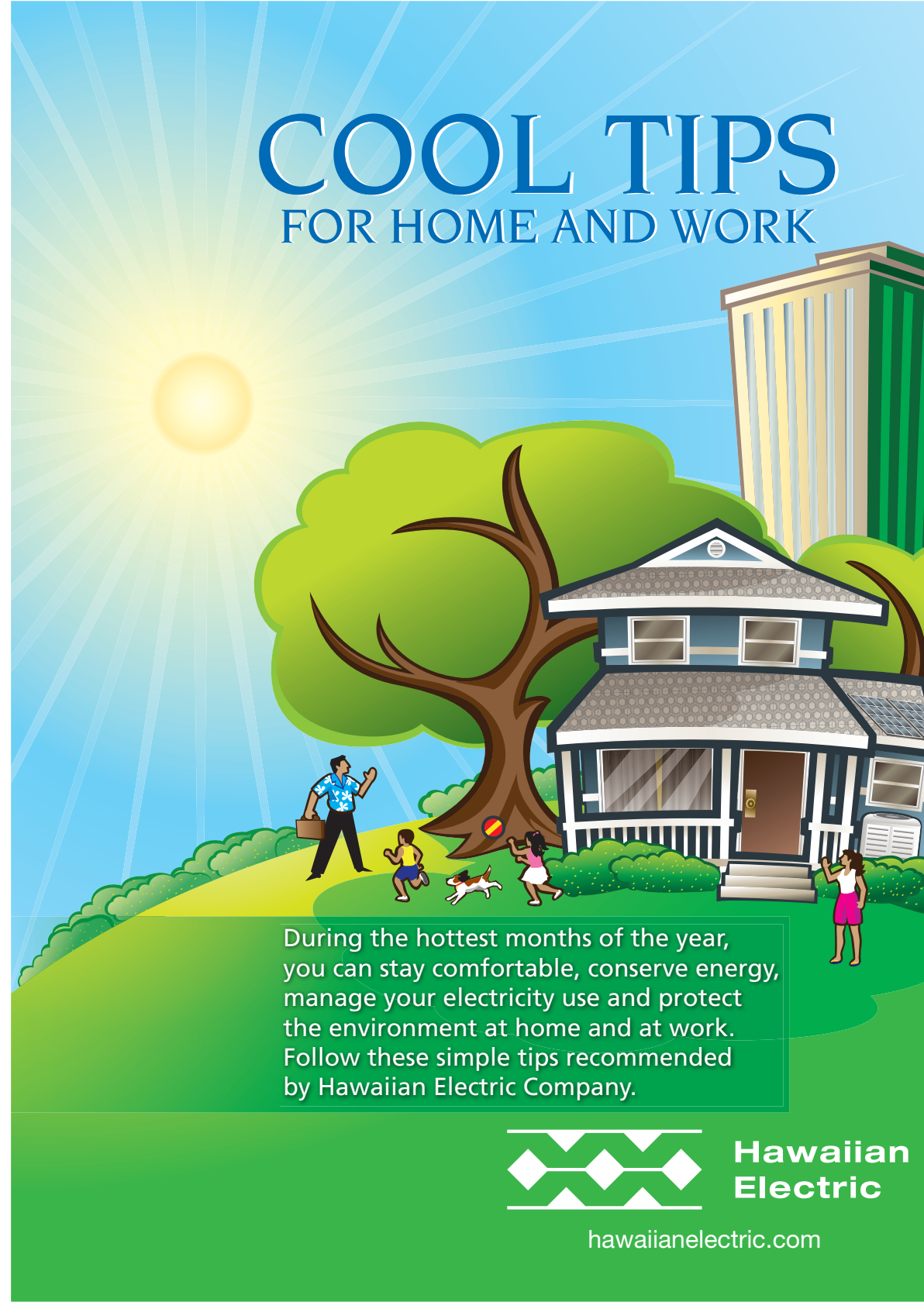


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COOL TIPS FOR HOME AND WORK



During the hottest months of the year, you can stay comfortable, conserve energy, manage your electricity use and protect the environment at home and at work. Follow these simple tips recommended by Hawaiian Electric Company.

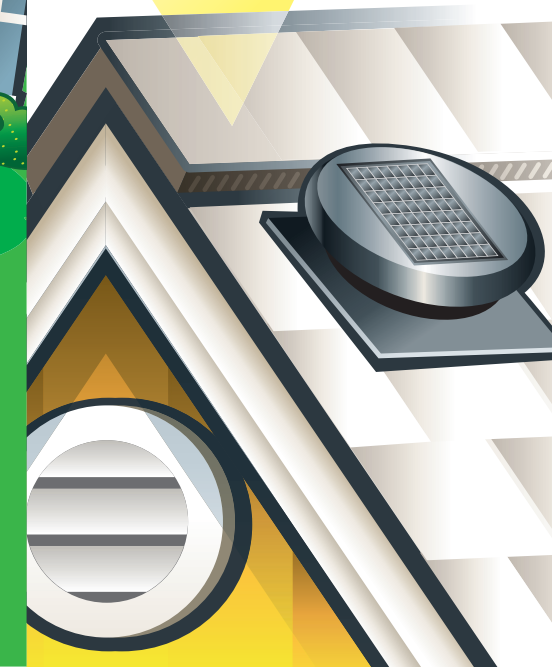


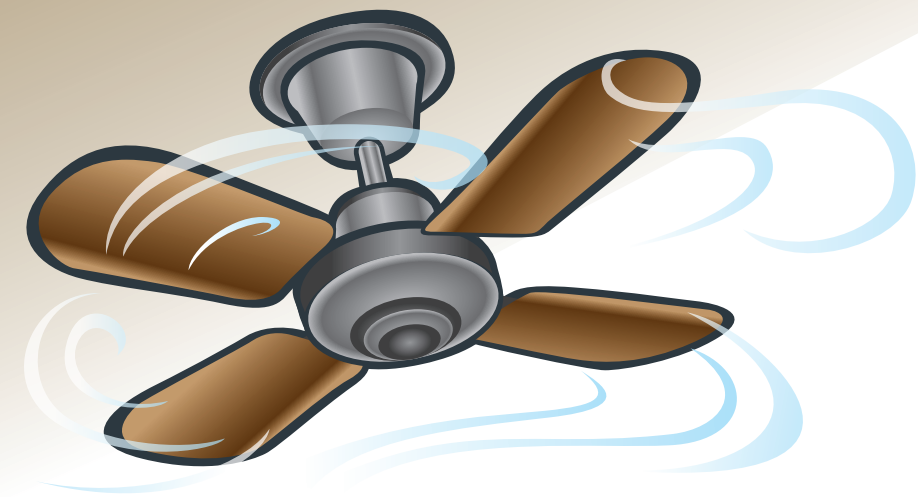
Hawaiian Electric

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MAINTAIN A COOL HOME

- Open the windows to let Hawai'i's trade winds cool your home instead of using the air conditioner.
- Run ceiling fans so that the air blows down creating a wind-chill effect that will make you feel cooler. Turning on a fan instead of the air conditioner for eight hours a day can save over \$72 per month.
- Replace incandescent light bulbs with cool and efficient compact fluorescent light (CFL) or light-emitting diode (LED) bulbs. CFLs and LEDs use 75% less energy, last longer and produce less heat.
- Hang awnings, blinds or install tinting film on south and west facing windows to block out the afternoon sun. Solar window film or tint can reflect 80% or more of the incoming heat.
- Install medium-colored curtains with white-plastic backings to reduce heat gains from the sun by 33%.
- Invest in a solar-powered attic fan to draw out hot air and reduce attic temperatures.
- Consider ridge and eave vents to increase attic ventilation.
- Install insulation in the attic to keep the heat from transferring to your living area.
- Use light-colored roof material and exterior surfaces to stay cooler.





BE SMART ABOUT AIR CONDITIONERS

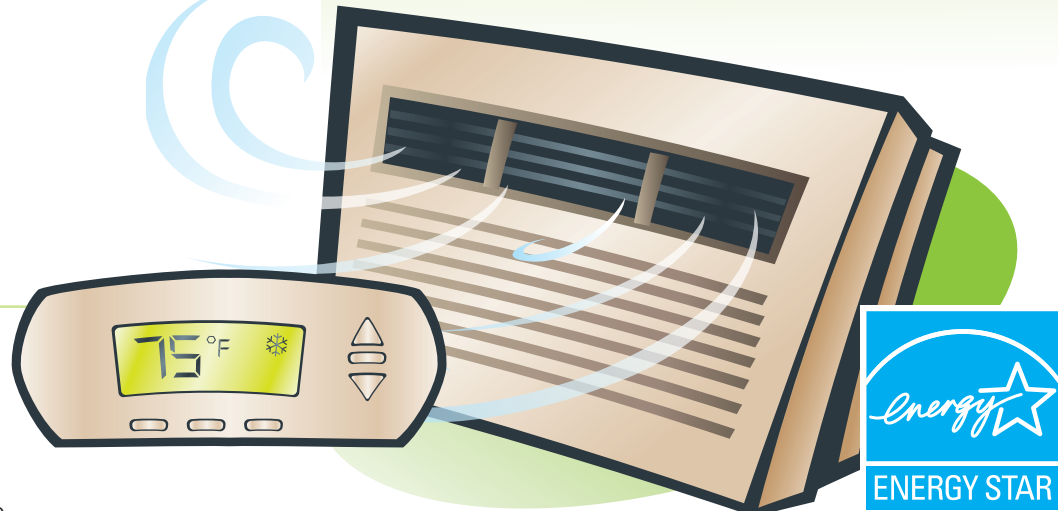
When air conditioning is necessary, making wise choices will help you save energy and money.

- When it's time to replace your cooling system, choose one with the ENERGY STAR® label. On average, ENERGY STAR® air conditioners are 15% more efficient than standard models.
- Review the yellow Energy Guide label affixed to all new cooling systems for operating efficiency, measured by Energy Efficiency Ratio (EER) or Seasonal Energy Efficiency Ratio (SEER). A higher EER or SEER means the air conditioner is more efficient.
- Schedule maintenance checks to ensure your system is working safely and efficiently. Clean or change the filter according to the manufacturer's specifications—generally once a month for cleaning.
- Keep cool air in by closing doors and windows when the air conditioner is on.

For more information, call 543-7511 or visit www.hawaiianelectric.com.

SIZE IT RIGHT

Find the right-sized air conditioner for your home with our AC Calculator on hawaiianelectric.com. An undersized unit will not cool effectively. An oversized unit will result in inefficient performance and high humidity levels.



- Check for drafts—maintaining proper sealing and insulation of walls, ceilings, windows and floors can save up to 20% on cooling costs.
- Automate your air conditioning system with a programmable thermostat to scale back or turn off cooling while your home or office is unoccupied.
- Set the thermostat at the warmest comfortable setting. Each degree above 75 degrees saves you approximately 3% of the energy used to cool your home.
- Refrain from setting the air conditioner to a colder temperature when you first turn it on as it will not cool the space any faster, and can lead to excessive cooling and wasted energy.
- Run ceiling fans to help circulate cool air rather than lowering the thermostat temperature.

COOL DOWN WITH LANDSCAPING

Landscaping can keep you cool and add value to your property. Properly placed trees can reduce air conditioning costs in unshaded homes by 15%-50%.

- Plant leafy native trees, plants, and shrubs or set up trellises on the warmer east, west and south facing sides of your home.
- Plant trees with spreading crowns (v-shape) on the south side to shade the roof, but be sure not to block solar panels.
- To block the afternoon sun, plant medium-sized trees on the west side of your home.
- Grow shrubs and groundcover plants near driveways, sidewalks, and lanais to reduce heat radiation.
- Shrubs can help shade walls; however, allow space for air flow and avoid dense foliage immediately next to walls, especially if wetness or humidity is a problem.
- Prune plants near windows so they don't block trade winds.
- Shade air conditioner units with trees to increase their efficiency, but avoid blocking air flow around the condenser.
- Use plants, shrubs, or trees instead of fences and walls to form boundaries around the property.

A tree's shade and the evaporation of moisture on its leaves can reduce surrounding air temperatures by as much as 9 degrees. Air temperatures directly under trees can be as much as 25 degrees cooler than the air above unshaded asphalt.

FIND THE RIGHT TREE FOR THE RIGHT PLACE

Make sure that trees and their roots will not interfere with overhead or underground utility lines when they reach maturity. Plant trees that grow higher than 30 feet at least 30 feet away from overhead lines.

