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According to the U.S. Department of Energy, three-quarters of homes in our country have air conditioning units, and we spend more than \$29 billion each year to run them. In fact, a full 6% of all electricity produced in the United States goes to keeping us cool. That number won't surprise homeowners, who are accustomed to seeing their utility bills start to go up when they turn on the air conditioner each year. What if you could get some of that money back this summer? How To Live Without Air Conditioning Life without air conditioning is entirely possible and can be quite comfortable. It's a matter of planning ahead, using the natural resources you have at your disposal and getting creative when things heat up. Here are a few great ways to keep your cool and save some cash as summer ramps up. Open the Windows It sounds simple, but the idea of funneling cool air through your home requires a bit more thought than just throwing open a window or two. Start by paying attention to the direction the wind is blowing, and open up a window that will take a direct hit of that cool air. Then open another window on the opposite side of the room to create cross-ventilation. Got a skylight? Opening it up can create a 'stack effect' that pulls hot air up and out. Use Fans To get more of that air into the house, use a window fan. An oscillating fan placed near the window will work as well. Ceiling fans are great if you have them; make sure they are turning counterclockwise during the summer for the greatest benefit. Close the Curtains When the sun beats down, close the curtains to prevent the heat from radiating into your home and increasing the temperature. Follow the sun through the day and close the curtains of windows that take a direct hit, and open the others to provide indirect light with less heat. Use Cooler Appliances Summer is the perfect time to use the slow cooker instead of the oven or to grill outside rather than using the stove. Not only do these alternatives help prevent heat buildup, but they also force you to get more creative with meals — a win-win situation for anyone who loves to cook. Buy (or Create) an Evaporative Cooler If you live in an area of low humidity, look into an evaporative cooler: They cost about half of what a typical air conditioning unit does and use only a quarter of the energy. Still too rich for your budget? Make a simple "swamp cooler" by placing a block of ice in a bowl and positioning the bowl in front of a fan. It's a temporary setup for those impossibly hot days. Plan for the Future For serious money savings, install awnings on the windows that take on the most sun, invest in UV-fighting coatings on the windows and plant trees that will eventually tower over your home and help block the sun. More Tips To Keep Yourself Cool Cooling the house down is great, but cooling down the body can make you even more comfortable. Here's how to make that happen without spending too much cash. Cooling yourself might be more helpful than cooling the room. Have plenty of water and ice on hand at all times, and let the kids (and adults!) indulge in popsicles, frozen juice bars and the like. Stay Cool at Night Most people enjoy sleeping in a room that is a little on the cool side, but that's almost impossible when you are choosing not to use the air conditioning. However, there are a few tricks to try. Start by putting your sheets and pillowcases in the refrigerator for an hour or so before bed. You can also use the old pulse point trick: wrap an ice pack in a washcloth and place it against your wrist, the side of your neck or the bend of your knee. It will make your whole body feel cooler. Play in the Water When things get too hot to stand, head outside. Wash the car, fill up the kiddie pool, get out the slip-and-slide and splash to your heart's content. If you choose to stay inside, take a cool shower to lower your body temperature and make the heat more tolerable. These ideas can help a great deal, but you might not want to part with your air conditioning unit just yet. Instead, make sure it's energy-efficient and current on maintenance. Take the time to seal the house with good weather-stripping, too, so that when you do break down and turn on the air conditioning, you can rest assured that it's using as little energy as possible to create that blissfully cool breeze. Utility and Bill Resources From Clark.com: Your car's air conditioner is very similar to the AC unit in your home, and it uses many of the same types of components. The AC system in your vehicle may seem complicated, but it's not. There are even some parts that you can service yourself. Any system that lowers air temperature operates in a similar fashion. First, take an affordable inert gas, like freon, and place it in a sealed system. This gas is then pressurized using a compressor. And, by the laws of physics, a pressurized gas heats up by absorbing energy around it. In an air conditioning system, this hot gas is then circulated through a series of tubes, where it dissipates its heat. As the heat dissipates, the gas returns to a liquid form which can be circulated back inside. This process of absorbing the heat from inside one space (in this case, the inside of your car) and dissipating it in an outside space is what produces the cooling effect. For many years, the gas used was freon, which is a known handling hazard. Since it was discovered that freon (R-12) was harmful to the earth's ozone layer, it has been phased out for automotive use and replaced with the slightly less efficient but harmless R-134a refrigerant. Your air conditioning system is made up of a compressor, a condenser, an evaporator (or drier), refrigeration lines, and a couple of sensors here and there. Here's what they do: Compressor: This is the heart of your AC system. The compressor is what takes the refrigerant (the gas) and pressurizes it, so it will absorb heat and cool the air. It is run by an engine belt. The compressor also has an electrically-operated clutch that turns the compressor on and off as you demand more or less cool air. Condenser: The condenser is like a miniature radiator, usually mounted at the front of the car right next to your big radiator. Sometimes the condenser will have its own electric cooling fan, too. The hot, compressed air passes through the condenser and gets much cooler as it dissipates the heat it's carrying. As it cools, the gas condenses back into a liquid. Evaporator: The evaporator is another little radiator that serves exactly the opposite task as the condenser. As the super-cool liquid is passed through the evaporator's tubes, air is forced through and gets really cold, right before it blows into the cabin of your car. As the liquid refrigerant warms up again, it starts turning back into a gas and continues to circulate through the system. Thermal expansion valve: To control the air temperature, the AC system has a valve that controls the flow of super-cool refrigerant to the evaporator. This allows your car to regulate just how cold the blowing air gets. There are several types of valves, but they all do the same thing. Dryer or accumulator: The dryer, also known as the receiver-dryer, serves as something like a safety catch for your system. Although the compressor is intended to compress only the gas form of your refrigerant, there's always a chance that some liquid could make it back to the dryer. The dryer catches this liquid before it can damage your compressor. Since even the tiniest leak or careless installation can introduce water moisture into the system, the dryer absorbs this chemically using what's called a desiccant. The dryer also has a filter that catches any contaminants that might be in the system. All air conditioning systems have these basic parts, although different systems use various forms of sensors to monitor pressure and temperatures. These variations are specific to the make and model of different vehicles. If you need to do some work on your car or truck's AC system, be sure to have a repair manual specific to your vehicle. It improves air quality and passenger comfort. Hyundai has been offering a number of attractive and impressive new cars over the last few years that offer breathtaking design while other new models like the I20 N offer incredible performance. However, the latest technology from the Korean giant involves a part of the car that we often take for granted - the air conditioning system. Hyundai's new development aims to improve the quality of air in its cars by reducing the risk of mold, making the air as comfortable for passengers as possible, and reducing fine dust in the cabin. The new tech will likely show up in a flagship offering like the Hyundai Sonata or Hyundai Palisade first, while other Hyundai, Kia, and Genesis models will follow. Hyundai Hyundai Hyundai Three new technologies have been announced by Hyundai, the first of which is called After-Blow technology. This innovation dries any excess condensation on the A/C evaporator and thus suppresses mold growth that would naturally start to create unpleasant smells in the cabin. The system activates half an hour after the car has been shut off and remains on for 10 minutes to blow out any unwanted evaporation. It's clever too and will switch off if it detects the battery voltage dropping, or will simply not switch on if the outside air temperature is low or the A/C system hasn't been used for a while. The second piece of tech is called Multi-Air Mode, and will allow for the same volume of air that you'd normally expect, but with new air slots in the seats, the air is blown out of the dash vents less forcefully. This creates a calmer environment that allows the car to be well-regulated in terms of cabin temperature without blowing a huge volume of air directly at occupants. Hyundai Hyundai Hyundai Hyundai The final new innovation is a 'Fine Dust Indicator' that measures air in the car in real-time to allow the driver to detect how much fine dust is in the air. If there's too much, the system will automatically start cleaning the air and minimizing indoor humidity. If the air quality doesn't improve, this can serve as an indication that the air conditioning filters need to be replaced or that seats and mats need to be decontaminated. The combination of these three new innovations in enhanced air quality are impressive details that show just how advanced our cars are becoming, and in a world with airborne viruses, any improvement is welcome. Hyundai Hyundai Hyundai

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