

# How to properly and efficiently use the heating mode on your air conditioner to warm your home while saving electricity.

What is the heating mode of an air conditioner? How do you turn on the heating mode? Let's find out!

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Heating mode is when the air conditioner produces warm air. It does this using reverse cycle technology, reversing the cooling cycle in the system. The mechanism works as follows: A cold liquid, called refrigerant, passes through an external coil, absorbing heat from the outside air.

The refrigerant is pumped by the compressor through the chambers and into the condenser.

When a refrigerant is compressed, it heats up, creating hot air.

This stream of hot air is pushed into the room by a fan to warm the area.

When operating in normal cooling mode, the refrigerant flow is reversed in the system. The advantage of a two-way air conditioner is that it can cool in the summer and heat in the winter. This is especially useful for regions with hot summers and cold winters. They are also a great way to save money and space in your home, as you won't need to buy separate heaters for each room and won't need to place them anywhere. The disadvantages are that their initial cost is much higher than heaters, and they can be a bit noisy.



## How the heating mode works in a two-way air conditioner.

Similar to the cooling principle, the heating mode operates indirectly through a heat exchanger, meaning the air is not directly heated by the compressor and blown onto the user. Instead, energy is converted through the refrigerant (air conditioning gas) to warm the air, which is then evenly distributed throughout the room, providing wide-area heating.

For air conditioners, the compressor's operation is the most power-consuming part; in addition, some air conditioners also have an auxiliary electric heating element to enhance the air heating efficiency.

Therefore, the actual operating efficiency in heating mode consumes more electricity than in cooling mode.

## How to turn on the heating mode of a two-way air conditioner.

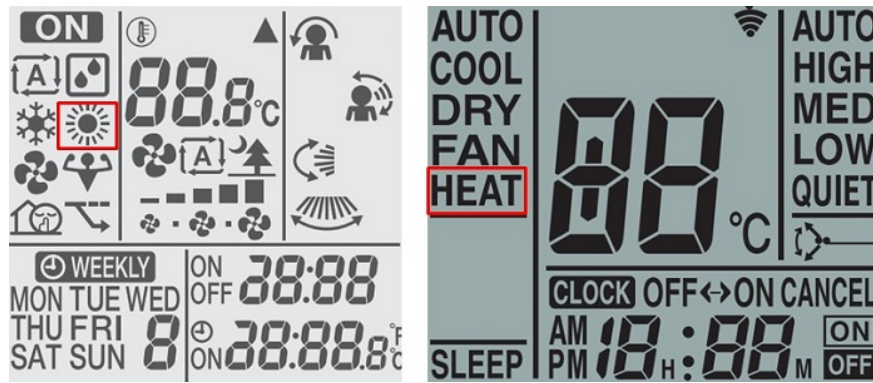
Depending on the brand and model, you can adjust the temperature in the HEAT mode of your air conditioner within the range of 10-30°C, 16-30°C, 20-24°C, etc.

The heating mode of the air conditioner is usually indicated by one of the following two signs:

1. Sun symbol: Brands like Daikin, Mitsubishi, Toshiba, Sharp, Samsung, etc., will have different sun symbols, as shown below.



1. The word HEAT (Panasonic, Fujitsu...)



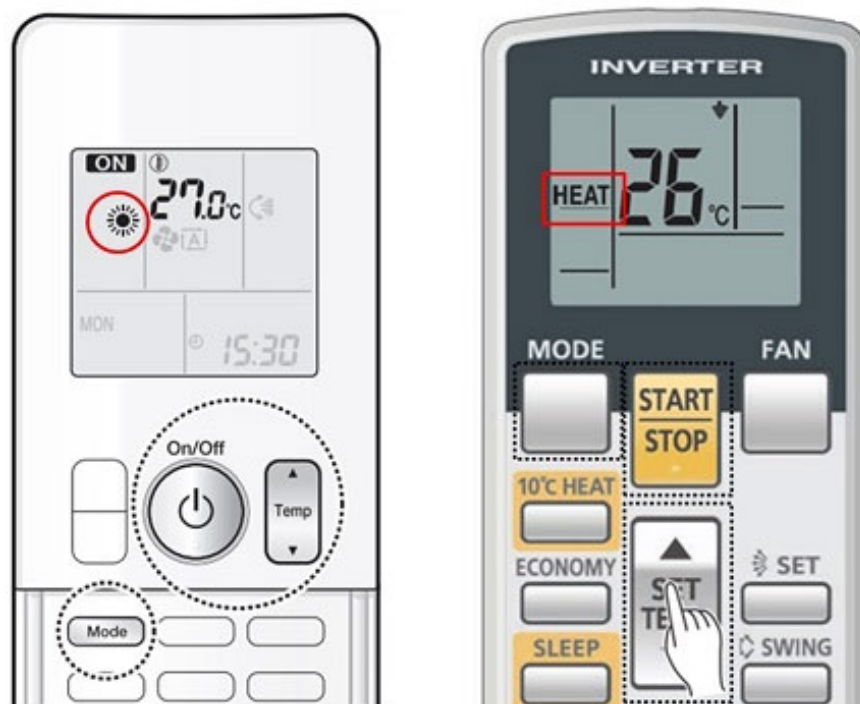
## When the air conditioner is not already on

Step 1: Start the air conditioner by pressing the ON/OFF (START/STOP) button.

Step 2: Press the MODE button -> select HEAT mode or the sun icon on the control panel.

Step 3: In the temperature control area (TEMP), press the up or down arrow to increase/decrease the temperature to adjust the room temperature to suit the actual conditions.

*Note* : Each air conditioner brand has its own characteristics, so you should refer to the user manual that came with the unit for the most accurate operation.



## When the air conditioner is already on

If the air conditioner is already on and operating in a different mode, to switch to heating mode you just need to use the remote control and follow these two steps:

Step 1: Press the MODE button until you see the word HEAT or the sun icon appear.

Step 2: Press the up/down arrows to adjust the temperature to your liking.

Note

1. To switch the air conditioner from heating mode to another mode, simply press the MODE button until you reach your preferred mode, then adjust the temperature accordingly.
2. To turn off the air conditioner while it's in heating mode, simply press the ON/OFF (START/STOP) button.

## **Instructions on how to turn on the heating mode on air conditioners from various brands.**

### **How to turn on the heating mode of a Funiki/Daikin air conditioner.**

To set the heating mode on your Funiki/Daikin air conditioner, press MODE, then select HEAT. A sun icon will then appear on your air conditioner remote control.

On the control panel, press the MODE button to select a mode; icons corresponding to the settings will appear as follows:

1. AUTO: Automatic.
2. HEAT: To heat (to warm up – represented by the sun icon).
3. COOL: Cooling – Represented by a snowflake icon.
4. DRY: Dry – Indicated by a water droplet icon.

You can adjust the temperature on your Funiki/Daikin air conditioner by pressing the TEMP button or pressing the ? (increase temperature) or ? (decrease temperature) buttons.

### **How to turn on the heating mode on a Panasonic air conditioner.**

To set the heating mode on your Panasonic air conditioner, press MODE, then press HEAT. The word HEAT will then appear on your remote control.

On the control panel, pressing the MODE button will display the following modes:

1. AUTO: The machine runs in automatic mode. In this mode, the machine will automatically stabilize the room temperature between 23 and 25 degrees Celsius.
2. COOL: The machine is running in cooling mode.
3. DRY: The unit is running in dehumidification mode. In this mode, the temperature produced is not lower than the room temperature. During the gentle drying mode, the indoor unit's fan will operate at the lowest setting.
4. HEAT: Heating mode.
5. FAN: Only turn on the fan.
6. E-ion / Ionizer (For Inverter air conditioners with Ion mode): Air purification and ion generation function. Provides approximately 20,000 negative ions to create a fresher room environment.

7. **POWERFUL:** Fast cooling function. This mode will cool the room faster when the machine is first turned on.
8. **QUIET:** This function minimizes the noise produced by the Panasonic air conditioner in the room. Suitable for sleeping. Press 3 times to cancel this mode.

You can adjust the temperature on your Panasonic air conditioner by pressing the TEMP button/pressing the ? (increase temperature) or ? (decrease temperature) buttons. To switch from Fahrenheit to Celsius, press and hold the down arrow in the Timer box for about 10 seconds.

## **How to turn on the heating mode on a Mitsubishi air conditioner.**

Turn on the heating mode on your Mitsubishi air conditioner.

1. Step 1: Press the ON/OFF button.
2. Step 2: Press the Mode button; the settings options will appear, including:
  1. AUTO: Automatic
  2. HEAT: To heat (to warm up – represented by the sun icon)
  3. COOL: Cooling – Represented by a snowflake icon.
  4. DRY: Dry – Indicated by a water droplet icon
3. Step 3: Select HEAT mode or the sun icon.
4. Step 4: Press TEMP, then press the + or – button to increase or decrease the set room temperature.

## **What temperature setting is best for the air conditioner/heater?**

Experts recommend setting the air conditioner's heating mode to between 22-25 degrees Celsius during the winter.

Furthermore, when the outdoor temperature is too low (around below 7 degrees Celsius), the heating efficiency of the air conditioner begins to decrease. For effective heating, users can combine the air conditioner with other heating devices such as fan heaters, heating lamps, oil heaters, etc.

## **Does the heating mode of an air conditioner consume more electricity than the cooling mode?**

The principle behind heating and cooling air in air conditioners is the same, indirectly through a heat exchanger.

The heating efficiency of an air conditioner is about 4% higher than its cooling efficiency, but the power consumption remains the same. Therefore, the heating mode of an air conditioner does not consume more electricity than the cooling mode.

## **Using the air conditioner's heating mode correctly helps save electricity.**

To use the heating mode of your air conditioner correctly, efficiently, and economically, users should pay attention to the following points:

### **1. The air conditioner's capacity must match the room size.**

An air conditioner with a capacity of 9000 BTU (1 HP) is most effective at both cooling and heating rooms measuring 8 to 15 square meters. A 12,000 BTU (1.5 HP) air conditioner heats well in areas ranging from 16 to 22 square meters. However, the installation location also partially affects the efficiency of the device, so your family should choose a suitable location for installing the air conditioner.



### **2. Option to set at a suitable temperature**

In winter, lowering the temperature setting by 2 degrees Celsius can save users more than 10% on electricity. Therefore, it's advisable to choose a temperature setting that isn't too different from the outside temperature, ensuring both energy savings and avoiding thermal shock when moving between the two environments. Additionally, because hot air is lighter than cold air, it tends to rise; therefore, the placement and direction of the airflow also have a significant impact.

### **3. Maintain a reasonable wind speed and avoid frequent changes.**

Specifically, when first turning on the air conditioner, you should set the fan speed to high to speed up the heat exchange process in the room. Once the device is operating stably and the room temperature is balanced with the set temperature, you can adjust the fan speed back to low.

### **4. Pay attention to the humidity in the room.**

Using the heating mode will dry out the air in the room. Therefore, attention should be paid to the operating mode and supporting measures to ensure good health. Your family should consider purchasing a humidifier to protect your skin and respiratory system when using the heating mode on the air conditioner.



## 5. Seal off the room.

However, this will hinder air circulation, and prolonged exposure to air conditioning can be harmful to health as it creates conditions for harmful bacteria to thrive. Therefore, allowing adequate ventilation after a few hours of air conditioner use will help your family become smart consumers.

## How to fix a non-functioning air conditioner heating mode.

If your air conditioner's heating mode isn't working, it could be due to a variety of problems:

1. The system is in cooling mode—this is a common problem. Make sure that heating mode is actually activated using your remote or wall-mounted controller. This mode is usually activated by the button with the sun icon.
2. The system is outdated and does not support heating—older systems lack the ability to reverse the cycle. So, if your system is really old, heating mode may not be supported.
3. The filter is severely clogged—when the air conditioner's filter is heavily clogged, air has a much harder time passing through. You should clean the filter once a month, or more often if you live in a particularly dusty or polluted environment.
4. The system needs to be reset—try resetting the system by turning the machine off at the circuit breaker, then turning it back on.
5. You're trying to use different modes for different devices—if you have a split-system, where multiple indoor devices use one outdoor unit (compressor), you won't be able to use both heating and cooling modes on two separate devices at the same time, since they all use the same refrigeration cycle.
6. The system needs repair—if all other methods fail, you may need an air conditioning technician to come and take a look. A part of the system may be broken.

Hopefully, with the information above, your family will be able to use the heating mode on your air conditioner effectively and save electricity.

And don't forget to visit [META.vn](http://META.vn) to order your air conditioner! Thank you for reading this article!

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