

# Learn the structure, installation and use of air conditioners

Structure of plants like? How to install and use air conditioning like? This will be the main content that we share with you in this article.

In addition to quality and price, when choosing to buy air conditioning, people are also interested in many other factors, especially the structure, installation and use. **So the structure of the tree like? How to install and use air conditioning like?** The article of TipsMake.com will answer these questions for you!

## Structure and capacity of plants

Air conditioner (or vertical air conditioner, vertical cabinet air conditioner, vertical air conditioner .) has a rectangular box shape, quite compact so it does not occupy too much area. The capacity of the air conditioner is quite large, usually from 21000BTU or more, so that it is capable of cooling effectively for large spaces such as living rooms, shops, restaurants, hospitals .



Conditioner plants are used quite popular today

The structure of the air conditioner includes basic components such as:

1. **Outdoor unit:** Is the heat exchanger tubular type aluminum wings, with axial fans. Inside the outdoor unit includes fans and compressors. These are the parts that consume the most power (accounting for about

95% of the total power consumption of the air conditioner). The outdoor unit is specifically designed to be installed outdoors without the need for shielding. However, users should still have protective measures, helping the outdoor unit to avoid rain, sunlight, solar radiation to improve the efficiency and durability of the machine.

2. **Indoor unit:** is a copper-tube heat exchanger, with centrifugal fan (squirrel cage fan). Indoor units will be placed inside the house and come in different shapes for users to choose to suit the structure of the building as well as the installation space.
3. **Control wire:** It is placed between outdoor and indoor units.
4. **Gas piping system:** is a segment of pipe connecting the outdoor and indoor units, including liquid and gas pipes, in which the liquid pipe is smaller than the gas pipe.
5. **Dynamic cords:** Also known as power cords, are usually connected to outdoor units. The number of power cords will depend on the manufacturer and the type of power source that the machine uses (the power of the air conditioner can be either single-phase or three-phase depending on the capacity, usually those with a capacity of 36000BTU or more 3 phase power will use).

**Further reference:** [Learn the technology of air filtration on air conditioners today](#)

## Instructions on how to install air conditioning

You can refer to the instructions below to know how to properly install standing air conditioners:

### Step 1: Choose the installation location.

We should mount the air-conditioner standing in a well-ventilated area without obstructions, avoiding installation near a door, where there is a risk of explosion or places with mineral oil, oil vapor, metal powder .

### Step 2: Install indoor air conditioner.

1. Mark the location of the gas or drain holes with a pen and drill precisely the positions you have identified.
2. Locate 4 locations on the floor or under the shelf for an indoor unit, then use this 4-hole drill. The diameter and depth of the borehole depend on the millet plug (or bolt) you have chosen.
3. Use a millet switch (or bolt) to fix the indoor unit to the specified location.
4. Install 'L' bowl on top of air-conditioner, then fasten to the wall with bolts or stoppers to make the machine stand harder.

### Step 3: Install the outdoor unit.

When installing the outdoor unit for a standing air conditioner, you should note the following:

1. It is recommended to have professional people do it because the outdoor unit installation is quite complicated.
2. Whether mounted on the ground or on the terrace, you should place the outdoor unit on the shelf to better protect it.
3. The price of outdoor unit must be firm.
4. Sufficient rubber gaskets must be installed for damping.
5. Make sure the back of the outdoor unit is at least 300mm away from obstacles, the front of the outdoor unit is at least 1000mm away from the obstacles, the sides of the outdoor unit are at least 500mm away

from obstacles.



It is recommended for professional people to install outdoor air conditioners

#### **Step 4: Connect the gas pipes, wires and water pipes.**

1. Flared gas pipes and connectors. Note: Cleaning copper pipe before flaring, cutting pipe must avoid strong pressure and deep cut, it is necessary to remove cutting edge.
2. Electrical wiring. Note: The power cord must be firmly connected, do not touch the gas pipe or other parts such as fans.

#### **Step 5: Test the freezer with freezer.**

After installing the air conditioner, power the machine and run it for 30 minutes. If the machine operates stably, without any problems, the installation is successful.

## **How to use air conditioner safely and effectively**

To use the standing air conditioner safely and effectively, you need to note the following:

1. **Adjusting the right temperature:** Choosing the right heat level when using tree conditioner not only helps protect the engine, saves power consumption but also protects your health. According to experts, when using tree conditioners or other types of air conditioners for cooling, we should set the temperature from 25 to 28 degrees C.
2. **Doors should be closed during air conditioning** to minimize heat loss. However, we should not close too tightly because it will affect health.
3. **Cleaning, maintenance periodic air conditioner:** After a period of use, air-conditioning cabinets will be dusty, especially on the indoor unit, outdoor unit, strainer . This will affect the efficiency of making as well as the life of the air conditioner. Therefore, we need periodic hygiene and maintenance. With the external parts of the machine, you can clean regularly with a soft, clean cloth, but with the outdoor unit, the indoor unit needs to be cleaned and maintained periodically every 6 months.



Periodic cleaning and maintenance to keep the plants stable and efficient

**See also:** [How to clean the air conditioner properly?](#)

Hopefully our article will help you better understand the structure, capacity and installation of air conditioners. Thank you for your interest and follow up the article!

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