

# Structure and operating principle of air-conditioning fan

Air-conditioning fans are one of the new types of steam-cooled fans, but they are highly appreciated and favored by many consumers. Learn more about this cooling device as well as pocket the experience of buying a good quality air conditioner fan, the cheapest price!

**In this article, TipsMake.com will share with you 'all things' things to know about air conditioner so you can easily choose a good quality cooling device, reasonable price for this summer. Please!**

Electric fans are always one of the indispensable devices for families in tropical climates like Vietnam to dispel the heat easily and save electricity. Currently, there are a lot of steam-cooled devices in the market that combine fans and steam to be more efficient than conventional fans, in which the air-conditioning fan is a device that cannot be mention.

## Things to know about air-conditioning fans, air coolers

1. What is an air conditioner?
2. Structure of air-conditioning fan
3. Principle of operation of air-conditioning fan
4. Characteristics of air conditioner fan
5. Note when choosing to buy air conditioner
6. What type of fan is good?
7. How much is the fan price regulating?
8. Top 5 good quality air conditioners, the cheapest price today
9. Note not to be missed when using air conditioner

## What is an air conditioner?

Air conditioner fan is also known with many other names such as **air cooling** , **steam conditioning** . This is a device to take advantage of steam to cool the air in the room, helping the hot season have higher efficiency than other types of fans that only utilize energy from the motor to rotate the rotor to circulate air and create normal wind.

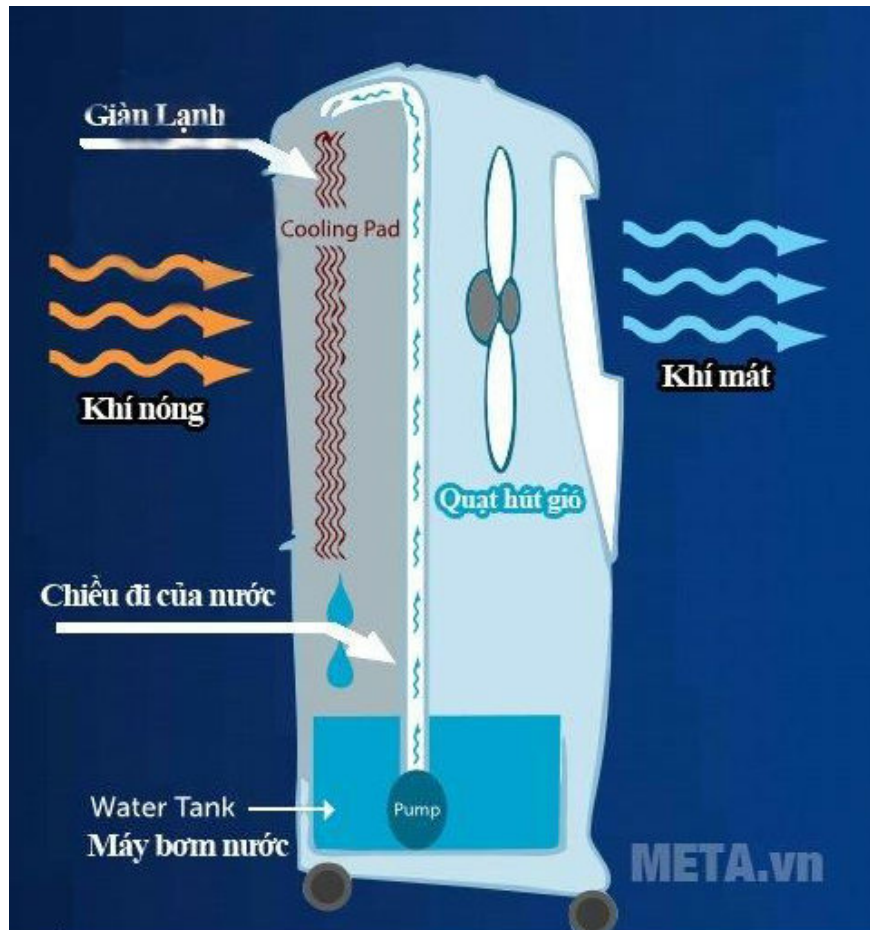


Air conditioner helps "cool" summer effectively.

## Structure of air-conditioning fan

Air conditioner with main structure includes the following parts:

1. **Cooling Pad** : Usually made of cellulose (cellulose) and honeycomb; The main function is to cool, reduce the heat of the outside hot air before this air is brought back into the environment.
2. **Large-capacity blower system** : It plays a role in sucking hot air from outside the environment into a cooler, then bringing cool air back to the room environment.
3. **Water tank** : Used to store water for air cooling.
4. **Water pumping system** : Conduct continuous pumping of water from the water tank to the cooling pad, make sure the cooling plate is always wet to cool the air.
5. **Motor reversing** : Perform continuous air reversal to cool evenly throughout the room.
6. **Dust screen, air filter** : Has the role of dust filtering, air purification . to purify the air, ensure the atmosphere is fresh, safe for the health, and keep the machine running smoothly Cool, more effective cooling.
7. **Control system** : Usually includes electronic control panel on the camera body and remote control remote.
8. **Moving wheel**: Consists of rolling wheels equipped with the base of the cooler so that users can easily move the machine to different cooling spaces flexibly and effortlessly.



Structure and operating principle of air-conditioning fan.

## Principle of operation of air-conditioning fan

The basic air cooler works as follows:

1. Water pumping system to convey water from water tank to cooling pad.
2. The cooling plate absorbs water and is continuously supplied with circulating water so it is always wet.
3. The fan system draws hot air from outside the room into the machine and passes it through the cooling plate.
4. High-humidity cooling pads quickly absorb the heat of this hot air stream, helping to reduce airflow from 3 to 7 degrees Celsius and up to 15 degrees Celsius, creating a cool airflow.
5. The fan system pushes the cooled airflow out into the environment, quickly lowering the room temperature, bringing a fresh, pleasant and refreshing atmosphere to users.

In case of using only water, the room temperature will be reduced to about 3 - 7 degrees Celsius, and if the cooler allows the use of dry ice, the temperature can be reduced to 10 - 15 degrees Celsius. Fans that can be used with this dry ice gel are also known as **stone fans** .



Air conditioner fans usually come with convenient remote control.

## Characteristics of air conditioner fan

Air conditioner fan has the following characteristics and features:

1. Using only water (or dry ice) to cool, not use gas as air conditioner, the structure is not too complicated, not costly for maintenance and maintenance.
2. Using water moisture to reduce air temperature before fans blow wind to the environment, it has higher cooling effect than conventional electric fans such as ceiling fans, tree fans, wall fans .
3. Do not spray mist, steam directly into the environment so it does not make room humid, mysterious, does not affect all kinds of furniture, electronics, especially not create conditions for bacteria, fungi mold development and causing disease to users.
4. Can effectively cool in large areas, open space without electricity, can save up to 90% of power consumption when compared to air conditioning and air conditioning.
5. Cooling is as cool as natural wind, so it doesn't dry out, doesn't dehydrate, makes your body feel good.
6. No installation is required, it is flexible to move to different spaces for use on demand.
7. Quiet operation, most of them are equipped with remote control remote with dust and deodorizing features . so it is very convenient, not uncomfortable to use and contributes to improving air quality in the room better.



Air conditioner fan is super efficient when compared to air conditioner, air conditioner.

## Note when choosing to buy air conditioner

With the above advantages, surely you will not have to wonder whether to use air conditioner or not. However, to buy a good air conditioner, you should note some points as follows:

1. Choose a machine with cooling capacity suitable to the needs of use, space and area to be cooled to ensure both effective cooling and no electricity. Normally, for machines with a capacity of 50 - 150W, it is possible to cool well for rooms with an area of less than 30 square meters; But with large and crowded spaces like restaurants, hotels, factories . new industrial coolers will be needed to ensure efficient cooling.
2. Choose a reasonable water tank capacity, preferably those with a water level scale so that they do not have to regularly add water and can add water when needed more actively. Normally, for rooms with an area of less than 15 square meters, only a water tank with a capacity of 15 - 25 liters, rooms with larger areas will need a water tank with a larger capacity.
3. Choose air conditioner with many wind modes to make it easy to use and weather conditions, especially the natural wind and sleep wind regime will help cool and not affect sleep; function to create ion to purify the air to better protect health, especially families with young children, the elderly and people suffering from respiratory diseases; Priority is given to fans with remote control to customize the operation of the machine from any location in the room.



Air conditioner has a variety of models in the market.

## What type of fan is good?

Currently on the market there are hundreds of air conditioner models, so to ensure the quality and durability of the machine, you should also consider choosing reputable air conditioner brands such as Sunhouse, Daikio, Symphony, FujiE, Fred , Erito .

1. **Sunhouse Air Conditioner** (Vietnam): Has a compact design, can be used for all enclosed and open spaces with continuous air reversal capability to cool from all sides, the case is made of extremely durable ABS plastic material and health safety.
2. **Daikio air conditioner** (Vietnam): There are all models of home cooling and industrial cooling machines, manufactured according to Japanese technology, with high wind flow, many wind modes, many convenient features. useful, especially the ability to timer can be up to 24 hours.
3. **Air conditioner Symphony** (India): Can meet all cooling needs in small and medium spaces to large crowded spaces; The maximum is equipped with up to 7 cooling wind speeds effectively and can be equipped with advanced features such as antibacterial deodorizing technology IPURE, TiO<sub>2</sub> filter .
4. **Hatari air conditioner fan** (Thailand): There are civil air cooling models favored by consumers with outstanding cooling capability, power saving, durable motor, the system turns itself off when it occurs. electrical leakage . and warranty period up to 36 months.
5. **Erito air conditioner** (Japan): Pure copper motor helps smooth and durable operation, high-grade ABS plastic cover is easy to clean and does not fade, equipped with 3-4 wind modes and self-disconnection mode when the water runs out to enhance the life of the device, avoiding electrical problems.

See details : [Advice] Which fan to buy?

## How much is the fan price regulating?

The price of air-cooled machines in the market is quite diverse, depending on capacity, water capacity, features and utilities, brand . that can range from 2 - 32 million dong. Therefore, you should consider your use needs to choose the right product at the most affordable price.

**For more information** , quote the cheapest updated steam-cooled equipment today



Air conditioner brings luxurious interior space.

## Top 5 good quality air conditioners, the cheapest price today

Sunhouse SHD7701 air conditioner fan



### Specifications :

1. Capacity: 60W
2. Water tank capacity: 6 liters
3. Cooling area: 20m<sup>2</sup>
4. Remote control: Yes
5. Other functions: Pump automatically disconnects when the bottle runs out of water, cools with dry ice gel, timer up to 4 hours, displays the water level.
6. Warranty 12 months

**Reference price : VND 2 million**

See the best price

**Air conditioner Hatari HT-AC10R1**



### Specifications :

1. Capacity: 46W
2. Water tank capacity: 10 liters
3. Cooling area: 8 - 12m<sup>2</sup>
4. Remote control: Yes
5. Other functions: Cooling with dry ice, 4 wind levels, creating negative ions to kill bacteria, timer up to 8 hours, disconnecting when there is an electric leakage problem.
6. Warranty: 36 months

**Reference price : VND 2.3 million**

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**Midea AC120-15F air conditioner fan**



**Specifications :**

1. Capacity: 55W
2. Water tank capacity: 15 liters
3. Cooling area: 10 - 15m<sup>2</sup>
4. Remote control: Yes
5. Other functions: The pot contains aromatic essential oil, cooled with dry ice gel, timer up to 7 hours.
6. Warranty 12 months

**Reference price : VND 2.5 million**

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**Air conditioner Daikio DK-800A**

**META.vn**



**Specifications :**

1. Capacity: 100W
2. Water tank capacity: 10 liters
3. Cooling area: 8 - 10m<sup>2</sup>
4. Remote control: Yes
5. Other functions: Create ion air filter, water level display bar.
6. Warranty 12 months

**Reference price : VND 2.9 million**

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**Air-conditioning fan Iruka I-99**



### Specifications :

1. Capacity: 200W
2. Water tank capacity: 17 liters
3. Cooling area: 15 - 20m<sup>2</sup>
4. Remote control: Yes
5. Other functions: Ice box to keep heat, filter dust, deodorize, create ion, timer up to 7.5 hours.
6. Warranty: 36 months

**Reference price : VND 4.8 million**

See the best price

### **Note not to be missed when using air conditioner**

During the use of air-conditioning fan, to ensure effective and safe cooling, you should keep in mind the following points:

1. **Location of the machine** : The device should be placed in a well-ventilated place to keep ventilation throughout the room; should avoid locations with direct sunlight, high humidity . so as not to damage the machine parts; you should avoid placing the machine in a position where you can wind straight into the person to ensure that there is no cold, headache .; It is necessary to regularly clean the room to ensure air quality, fresh air quality, good for health.
2. **Wind level** : Do not let the fan run too strong, the temperature difference between the room and the outside environment is too high to not adversely affect the health; The best temperature difference should

only be about 7 degrees Celsius.

3. **Cleaning the machine** : It is necessary to clean the machine periodically, regularly, preferably every 15 days with a water bottle and once a month with other parts to keep the machine running well, not staining, not creating conditions for bacteria , mosquitoes, insects . proliferate, especially to help the wind always clean, free from unpleasant odors.
4. **Electrical safety** : When you need to move the machine, you need to turn off the machine, unplug the power cord, empty the water in the container and in the container using only clean water, dry ice (if the machine can be used with dry ice), absolutely do not allow Add any other substance.

Hopefully, the above information has helped you to understand more about air-conditioning fan, the air cooling machine is very popular at present with the outstanding advantages of efficient cooling, power saving, friendliness. users and the environment from which to easily choose a family to help 'heat', 'fly the heat' really well this summer!

#### **More reference :**

1. Which cooler is suitable for office space?
2. What is tower fan? 5 advantages of tower fan compared to traditional tree fan?
3. Panasonic ceiling fan of any country? Where to buy good prices?

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