

What is ceiling conditioner? Should we buy ceiling air conditioner?

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Ceiling or air-conditioner, cassette air conditioner has the same structure as wall-mounted air conditioner but is designed to be installed in the ceiling. Especially, the ceiling air conditioner has an automatic drainage system, so when installing, it does not need to handle the slope.

When installing ceiling air conditioners, the entire body will be submerged in the ceiling, only the surface of the indoor unit protrudes.



Anatomy of ceiling air conditioner

Air conditioner ceiling 1 pm or 2 pm have 2 basic components are indoor and outdoor units.

Indoor and air conditioner

The indoor unit of the ceiling air conditioner is an aluminum copper tubular heat exchanger, equipped with centrifugal fan (squirrel cage) and placed inside the room.

The indoor unit has drainage pipes with a certain slope so that water does not condense on the pipes.

The indoor unit has only a fan and a control board so the amount of electricity consumed is quite small, only about 5%.

Outdoor unit air conditioner ceiling

Outdoor unit with ceiling air conditioner is an aluminum copper tubular heat exchanger with axial fan. Like the outdoor unit of the wall-mounted air conditioner, the outdoor unit of the ceiling air conditioner is designed to allow outdoor installation without shielding.

Outdoor units are the most energy-consuming parts of air conditioners, accounting for about 95% of electricity consumption.

The principle of operation of the ceiling air conditioner

Concealed air conditioner works similar to other harmonic lines:

1. The indoor fan will suck and blow continuously, creating circulation and dispersion of air throughout the room.
2. Temperature sensor in the indoor unit connected to the signal processing board is responsible for sensing the temperature of the air in the room.
3. When the room temperature is about 1 - 2 ° C higher than the set temperature, the control board for the outdoor unit operates. The outdoor unit will provide air-conditioning gas to the indoor unit and lower the temperature. When the indoor air temperature is reduced to the set temperature, the indoor unit will stop working and only the indoor air function will circulate.
4. Depending on whether the room temperature has been reached, the outdoor unit is at rest and the indoor unit is operating continuously.
5. When the internal temperature rises, higher than the set temperature by 1-2 ° C, the board will control the outdoor unit to run again, continue the cooling process.



Should we buy ceiling air conditioner?

Depending on your needs, room design, room size, budget . you can choose to install ceiling air conditioners or not.

Here are the pros and cons of ceiling air conditioners, you can consult before deciding whether to buy ceiling air conditioners.

Advantages of ceiling air conditioners

1. Get rid of sound and dust well.
2. Easy installation and operation.
3. Ensure aesthetics in terms of space.
4. Easy to clean.
5. The ability to cool quickly, the air will be distributed evenly, every corner of the room.
6. Easy control.

Disadvantages of concealed ceiling

1. Not suitable for rooms with small installation spaces.
2. Greater power consumption due to greater cooling capacity.
3. The price is higher than the wall air conditioner line.

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