

Structure and working principle of electric rice cooker

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Electric cooker is an extremely familiar and close to each of us. However, when asked about the structure and operation principles of electric rice cookers, not everyone knows. Below, TipsMake.com will help you answer this issue.



Structure of electric rice cooker

Before going into understanding the structure of electric rice cooker, let's take a look at some of the most popular and popular rice cookers today.

Common types of rice cookers include:

1. **Covered rice cooker:** This type of rice is also known as an instant rice cooker. Their main function is simply to cook and reheat rice.
2. **Removable rice cooker:** This pot has a design, simpler model than a rice cooker with a lid. However, they are cheaper.
3. **High-frequency rice cooker:** This type of pot is integrated with many automatic functions, they are equipped with copper wires that emit a magnetic field, acting directly on the heart of the pot to cook food.
4. **Electronic rice cooker:** is a modern type of cooker, equipped with led screens, installed automatic cooking modes and electronic circuits.

Below we will go into the general structure of electric rice cookers.

A rice cooker is usually composed of 6 main parts:

Pot shells

The cooker cover is like an outer shell of the rice cooker, usually made of plastic or stainless steel. Pot shells work:

1. Keeping the temperature constant during the rice cooker is active, they also help to keep the kettle better.
2. Help protect parts inside the rice cooker and keep users safe.
3. In addition, thanks to this shell, the rice cooker becomes more beautiful, more aesthetic.

Lid

There are 2 types of pot lid:

1. Type of lid (also known as instant cover): When using the rice cooker, you will have a little difficulty in cleaning, but they are safer. Currently, some manufacturers have designed additional types of lids but still removable inside, making it more convenient for cleaning.
2. Removable cap type: This cover helps you to clean and clean easily. However, during cooking, the removable lid will drain a lot of steam, which can be dangerous for users, especially for families with the elderly and young children.

Pot body

This is a very important part, they work to protect the pot, prevent the pot from bumps, and this is also the main heat retention unit.

Today, with more modern technology, the body is usually designed with 3 layers:

1. The innermost layer has an exothermic effect, making the pot evenly warm.
2. The next layer is the porcelain insulating layer, which is responsible for keeping the whole rice cooker heat.
3. In addition to the crust, this layer is often decorated with textures to increase the aesthetics of the rice cooker.

Hot plate

This is the main heating element for the pot, helping the rice to be cooked. A rice cooker with a standard thermostat requires heat transfer channels, which helps to spread the heat evenly on the bottom of the saucepan so that the rice is cooked evenly.

Pot core

The core of the current pot is usually lighter, has better heat resistance and is usually covered with non-stick coating to prevent the rice from sticking, while helping the cleaning process be the most convenient.

Control unit

This unit is attached to the rice cooker, they use relays, which switch from cooking mode to keep warm mode.

Particularly with electronic rice cooker, this control unit has more complex features:

1. Controlled by electronic circuits.
2. LCD information is displayed on the screen.
3. Adjust by button, not by lever like rice cooker.
4. Installed many cooking modes.

Besides the 6 main parts mentioned above, the rice cooker is also equipped with a number of accompanying accessories such as steaming pots, measuring cups, rice spoons .



Learn how the rice cooker works

When we give the rice cooker a power source, and at the same time we turn on the cooking mode, the lever will transmit the motion as the switch pushes up and is attracted by the magnet, the lever remains in place, even if we let go.

The controller supplies heat to the thermostat, which then converts the energy into heat.

When there is heat, the pot is heated to make the rice and water inside boil and form rice.

During the cooking process, the rice cooker cover will have a role to keep the temperature stable. When the rice reaches a certain level, the controller will automatically switch to keep warm mode (Warm mode).

Steam relief valves also take part in the cooking process, helping to adjust the water level and pressure level in the rice cooker.

In general, all types of rice cookers will have the same principle of operation as a little different in the operation of the controller.

Above, we have helped you understand the structure and operation of the rice cooker. Hopefully, our sharing will help you better understand the rice cooker so that we can use them more effectively.

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