

Detailed explanation of temperature sensor on inverter air conditioner

The sensors used in inverter air conditioners mainly include indoor ambient temperature sensor, indoor condenser temperature sensor, outdoor ambient temperature sensor, outdoor condenser temperature sensor, and outdoor compressor exhaust pipe temperature sensor.

(1) Indoor ambient temperature sensor

The indoor ambient temperature sensor is usually installed at the air outlet of the indoor unit heat exchanger. It has three main functions: one is to detect the indoor ambient temperature during cooling or heating, and to control the speed and running time of the compressor; Control the working status of the air conditioner in automatic operation mode; the third is to control the speed of the indoor fan.

(2) Indoor Condenser temperature sensor

The Indoor Condenser temperature sensor adopts a metal shell and is installed on the surface of the indoor heat exchanger. It has four main functions: one is overcooling protection during cooling, the other is overheating protection during heating, and the third is to control the speed of the indoor fan motor. The fourth is to assist outdoor defrosting during heating.

(3) Outdoor ambient temperature sensor

The outdoor ambient temperature sensor is installed on the heat exchanger of the outdoor unit through a plastic frame. It has two main functions: one is to detect the outdoor ambient temperature during cooling or heating, and the other is to control the speed of the outdoor fan motor.



(4) Outdoor condenser temperature sensor

The Outdoor condenser temperature sensor is packaged in a metal shell. It is installed on the surface of the outdoor unit heat exchanger. It has three main functions: one is overheating protection during cooling, the other is freezing protection during heating, and the third is control during defrosting. The temperature of the heat exchanger.



(5) Outdoor compressor exhaust pipe temperature sensor

The outdoor compressor exhaust pipe temperature sensor also uses a metal casing, which is installed on the compressor exhaust pipe. Its main functions are two: one is to control the

opening of the expansion valve and the compressor by detecting the temperature of the compressor exhaust pipe The second is used for exhaust pipe overheating protection.