



Vertical 3 Zone Reflow Oven

Model	HW-R306	Price	1700USD
Number of Heating Zone	UP3/ Botton0	PCB Lateral Deviation	±2℃
Length of Heating Zone	1000mm	PCB Maximum Width	Transverse Width 300mm
Heating Device	Vacuum Super Long Life Ni Cr Heater	Accessible Height of Components	35mm
Heating Method	Turbocharged full hot air temp zone independent small cycle forced heating, energy saving	Moving Direction	left→right
Control System	Operation panel button, microcomputer intelligent instrument PID closed loop control/touch screen control	Moving Method	Stainless steel mesh belt
Warming Time	≤15min	Belt Speed	150-220mm/min
Number of			

### Material Characteristics:

Heating Wire : All heating device is the vacuum super long life Ni Cr Heater; (This material heater is essentially different from stainless steel heating tube and quartz heating tube ) . In terms of production process, all the heat sources are protected by double insulation of magnesium oxide tube and magnesium oxide powder to ensure safe and reliable use. On this basis, vacuum technology is used to remove the internal air inside the heating body, and then insulating porcelain sleeves are installed on both sides and sealed with high-temperature glue to disconnect the air from the heating wire, so as to ensure that the joint solder joint will not be oxidized and broken when heated at high temperature, Further extend the service life of heater.

Temp Sensor: All of them are K-type thermocouples with a maximum temperature of 1100 °C. The sensor probe adopts exposed package to ensure the maximum sensitivity. Generally speaking, the response speed of temperature fluctuation will not exceed 2 seconds; Due to the sensor probe is of exposed design, the temperature response is sensitive, the difference between the sensing temperature and the measured temperature is relatively small, the temperature setting target value and the actual air temperature will not exceed 1°C

### Design Feature:

In line with the principle of energy conservation and environmental protection, we have added the design of air guide and accelerator in the design, which is mainly to prevent return air. After the wind enters from the outside, it can only circulate in the internal, low heat flow loss, high thermal efficiency, so as to achieve the purpose of energy conservation and environmental protection .

### Uniformity:

In order to make the uniformity in the furnace better, we adopt the design of driving motor with wind wheel. The light aluminum wind wheel makes the driving motor load small and the service life long. The design of the wind wheel makes the thermal cycle in the furnace better, the thermal compensation faster, so that the uniformity is better, power saved. The upper six lower six standard 6 zone reflow oven uses about 3.5KW per hour.

◆Advanced structural design: The heating device adopts forced turbocharged hot air microcirculation system, which has the advantages of rapid temperature rise, super fast thermal compensation reaction rate, generally less than 2 seconds, and excellent temperature uniformity and heating efficiency; The inner liner adopts integrated design, and the K-type mirror stainless steel material has superior thermal insulation performance, never deforming, easy to clean and maintain.

◆Uniform temperature and excellent performance: The hot air circulation system ensures that the temperature in the furnace is uniform, and each temperature zone has good isotropy, which can significantly improve the influence of temperature curve crossing on PCB solder joints, effectively prevent the influence of air flow between temperature zones, and ensure the temperature control accuracy.

◆Fast Heating Rate: Due to the reasonable structure design and the electrical part is used properly, it takes only 8 minutes from room temperature to set temperature.

◆Lower power consumption: Due to the special design of the structure, high thermal efficiency and rapid heating, the power consumption per hour is less than 3 kw

◆Humanized design of operation panel : Easy operation within 15 min

◆Accurate temperature control : Unique design, micro computer control, deviation less 2 degree.

◆Scientific materials and excellent quality : Vacuum Packaging, isolated from the air, super long service life of the heater

◆It is widely used and versatile : The wind uniform and large heating capacity, suitable for all chips and IC welding, Independent circulation and temp control

◆Easy to adjust and practical: Suitable for all Temp curves, easy of debugging and time saving

◆Cooling fast: The outlet part is equipped with cooling zone, generally, only furnaces with 8 temp zone is equipped with cooling zones. In order to meet the welding needs and ensure the welding quality, we add the cooling zone in this equipment, also and prevent operators from being scalded by high temperature during out board detection .