# Infrared Thermometer Vacuum Sintering Furnace

Our Product Introduction

## Basic Information

- Place of Origin: CHINA
- Brand Name: OEM
- Certification: CE Certification
- Model Number: OEM
- Minimum Order Quantity: Negotiable
- Price: Negotiable
- Packaging Details: Carton, pallet, wooden case or according to customer's package requirements
- Delivery Time: 30 working days
- Payment Terms: 30% deposit + 70% T/T before shipping
- Supply Ability: 20 sets per month

## Product Specification

- Heating Source: Microwave
- Working Temperature: 1550°C In Atmosphere,1450°C In Vacuum
- Temperature Measurement Method: Infrared Thermometer
- Static Ultimate Vacuum Degree: ≤10-3Pa
- Name: High Vacuum Furnace
- Highlight: **vacuum tempering furnace**, **high vacuum furnace**

## Product Description

### Vacuum Sintering Furnace With ±0.1% Temperature Control Precision

**Product Features**

**Sintering** is heating multiple component or powder metal to form a single mass from without melting the sample materials, while vacuum is an ideal atmosphere condition to prevent sample material from oxidation when sintering.

**V**acuum sintering furnace is capable of continuously maintaining high vacuum degree, which is especially suitable for synthesis or sintering process requiring for high vacuum condition.

**It** utilizes infrared thermometer as temperature measurement method and the temperature control precision up tp ±0.1%, which is ideal for sintering since precise temperature control is indeed significant in sintering.

**Applications**

**It** has a robust construction and offers rapid and highly consistent heating procress in controlled atmosphere, which is suitable or numerous heavy duty industrial and laboratory applications.

**Technical Parameters**

| **Parameters** | | |
|---|---|---|
| **Power** | Voltage | 380±10V 50Hz three-phase |
| | Rated Power | 15KW |
| **Microwave System** | Microwave Output Power | 0.10~5.60KW continuously adjustable |
| | Microwave Frequency | 2.45GHz |
| | Microwave Leakage Prevention | microwave leakage intensity <2mW/cm$^2$ |
| **Thermal Insulation System** | $T_{max}$ | 1600°C in atmosphere, 1500°C in vacuum |
| | Working Temperature | 1550°C in atmosphere, 1450°C in vacuum |
| | Heating Space (D×H) | Φ180×150mm |
| **Temperature Control System** | Temperature Measurement Method | infrared thermometer |
| | Temperature Measurement Range | 300~1800°C |
| | Temperature Control Precision | ±0.1% |
| **Control System** | Auto, Manual and Isothermal Controlling Mode, PLC+Touch Screen | 40 segments of programmable technical parameters, data storage and export, real-time curve data display, dynamic data display |
| **Atmosphere system** | Static Ultimate Vacuum Degree | ≤10$^{-3}$Pa |
| | 2 Circuits to Control Atmosphere | capalble of oxidizing gas, inert gas, weak reducing gas etc. continuously maintain high vacuum degree |
| | Rotary Sealing | magnetic fluid, 4~6rmp |
| **Safety System** | Magnetron Alarm | over temperature alarm, over-current alarm |
| | Furnace Door Protection Alarm | furnace door shutdown sensor |
| | Cooling Water Flow Alarm | overflow alarm |
| **Cooling System** | High Precision Cooling-Water Machine | flow rate of 2m$^3$/h, rated cooling capacity of 5.2KW |
| **Overall Dimension** | Furnace Body(L×W×H) | ca. 2100×2200×2000mm |

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