



高新技术企业/专精特新企业
专业的高温加热制造工厂 (-100~2600°C)

中国热处理行业协会理事单位
ISO45001:职业健康管理体系认证
ISO14001:环境管理体系认证
ISO9001:质量管理体系认证
欧盟CE产品认证



咨询电话
13271526781
+86 379-69936789

1800°C VSF Vacuum Annealing Furnace



Main website: www.gwdl.com Email : wgq@gwdl.com Contact information: 13271526781, 0379-69936789 Address : No. 1,
Xingye 1st Road, Science and Technology Industrial Park , Jianxi District ,
Luoyang City, Henan Province



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High-temperature vacuum heat treatment furnace equipment

I. Main uses:

This equipment is mainly used for heat treatment of workpieces or materials in a vacuum or low-pressure protective atmosphere to improve the surface properties and substrate of parts.

It can also be used for vacuum heating and degassing, evaporation of oxides, and improvement of the surface gloss of metal parts.

II. Equipment Technical Specifications

1. Maximum working temperature range: Maximum working range γ 700 \times 800, maximum working temperature 1600 γ (furnace body designed and manufactured according to 1800 γ).

2. Total equipment power γ 90KW

3. Vacuum degree: Ultimate vacuum degree 2×10^{-3} Pa, vacuum generation time from atmospheric pressure to 5×10^{-3} Pa is less than 40 minutes (empty furnace); from

The residual vacuum level is better than 1 Pa 24 hours after the ultimate vacuum shutdown.

4. Heating requirements: From room temperature to 1200 γ , the heating time under vacuum conditions should be γ 100min; from room temperature to 1600 γ , under vacuum conditions...

Heating time γ 200 min.

5. Parts handling capacity: γ 200 kg

6. Pressure rise rate γ 0.5 Pa/h

IV. Configuration Requirements

1. Vacuum chamber assembly

Vacuum chamber dimensions γ 1200mm \times 1800mm, bottom lifting and opening for loading, high-quality carbon steel with paint finish, leak detection via helium mass spectrometry and quadrupole mass spectrometry.

The spiral water-cooled jacket is sealed with fluororubber rings; the vacuum chamber is equipped with an observation window.

2. Heater and insulation components

2.1 High-purity graphite heater with high-temperature resistant graphite felt heat shield, capable of operating under vacuum and protective atmosphere; insulating ceramic parts are made of high-temperature resistant materials.

Boron nitride ensures insulation and heat resistance. The workpiece stage uses high-strength graphite supports and high-temperature graphite disks to guarantee the required support strength.

Safe and reliable, with high temperature resistance and long service life.

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2.2 Measurement and control temperature range: room temperature to 1700℃, extreme operating temperature 1650℃ (vacuum time not exceeding 60 minutes), operating temperature can...

It can operate continuously at 1600℃ (vacuum) and can also operate continuously at 1000℃ under gas filling conditions, with a temperature control accuracy of $\pm 1^\circ\text{C}$. It can be controlled according to a set program.

(Imported temperature controller)

2.3 Maximum operating temperature range: $\approx 700^\circ\text{C} \times 800^\circ\text{C}$;

3. Working air path

It consists of an inflation valve, pipeline, needle valve, mass flow meter, connectors, etc., and has two channels (for de-vacuuming and nitrogen filling, and for filling with protective atmosphere).

The gas flow rate is displayed digitally.

4. Air extraction unit, valves, and pipelines

Vacuum pumps: 1 mechanical pump, 1 diffusion pump (including cold trap); 1 set of vacuum valves for vacuum acquisition system; 1-2 sets of pumping speed regulating valves;

5. Install the machine frame assembly

Made of high-quality square steel profiles welded together, with quick-release panels surface powder-coated (color must meet requirements); the machine surface is decorated with stainless steel skin.

6. Vacuum Measurement and Electrical Control System

6.1 Power supply cabinet: 1 unit;

6.2 Main control power supply: 1 unit (provides power to mechanical pumps, diffusion pumps, electromagnetic shut-off valves, vacuum gauges, etc., and has power failure and water failure protection functions).

6.3 Heating and Temperature Control IGBT Power Supply: 2 units (using imported temperature controllers, capable of multi-segment programmable temperature control); single unit power $\approx 25\text{KW}$, voltage 50V, 500A current.

6.4 Digital vacuum gauge: 1 set; measuring range ($1.0 \times 10^{-5} \text{ Pa}$ to $1.0 \times 10^{-1} \text{ Pa}$);

7. Spare parts

7.1 Two of each of the vulnerable sealing ports and sealing components;

7.2 Observation window optical glass: 2 pieces;

7.3. One set of spare high-temperature, high-pressure, high-efficiency graphite heaters;

7.4. One ionization and one resistance vacuum gauge tube;

7.5. One set of insulating components;

V. Technical Service and Warranty

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(1) Installation and commissioning: The instrument supplier's authorized technicians will install and commission the equipment on-site at the purchaser's location free of charge at the time specified by the purchaser.

The instrument will be inspected and accepted according to its technical specifications until it passes the test.

(2) Training: The instrument supplier shall send qualified technical personnel to the purchaser's location to train the purchaser on the calibration, operation, and maintenance of the instruments.

Our sales staff provides training on instrumental analysis applications and free software upgrades.

(3) Warranty: After the instrument installation and acceptance are completed, the instrument supplier will provide a one-year free warranty service. During the warranty period, the instrument supplier...

Upon receiving a request from the purchaser for repair of the purchased equipment, a response should be given within 12 hours, and a dedicated repair technician should be dispatched to the site within 2 days.

The purchasing party will provide on-site repair services.

Thank you for contacting us!

Thank you for contacting us! Company Name: Luoyang Ju Xing

Kiln Co., Ltd. Company Address: Advanced Manufacturing

Cluster Area, Jianxi District, Luoyang City

Company Address: Jianxi District, Luoyang advanced manufacturing enclave

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