



LUOYANG JUXING KILN CO., LTD

高新技术企业/专精特新企业  
专业的高温加热制造工厂 (-60°C~2600°C)

中国热处理行业协会理事单位

ISO9001:质量管理体系认证

欧盟CE产品认证



电话/邮箱  
13271526781  
+86 379-69936789  
thermo@gwdl.com



### Vacuum hot press furnace GWL-1200RY technical specifications



#### use:

Widely used in ceramics, metallurgy, electronics, glass, chemicals, machinery, refractory materials, new material development, special materials, building materials and other fields.

Production and experimentation.

#### Features:

Door opening methods: front opening door and side opening door

1. Control accuracy:  $\pm 1\%$ ; Furnace temperature uniformity:  $\pm 3\%$ .

2. Easy to operate, programmable, PID self-tuning, automatic heating, automatic heat preservation, and automatic cooling; no operator intervention required; optional accessories available.

Communicating with a computer to operate the electric furnace (starting the furnace, stopping the furnace, pausing heating, setting the heating curve, and storing the heating curve).

Historical curves, etc.), the software is free; see: Computer Control System for details.

3. Rapid heating (heating rate adjustable from  $1\text{°C}/\text{h}$  to  $40\text{°C}/\text{min}$ ).

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4. Energy saving (the furnace is made of imported fiber, which is resistant to high temperature and rapid heating and cooling)

5. The furnace body is coated with a fine powder coating to resist corrosion and acids and alkalis. The furnace body and furnace chamber are isolated by air cooling, and the furnace wall temperature is close to room temperature.

6. Dual-circuit protection (over-temperature, over-pressure, over-current, thermocouple breakage, power failure, etc.)

7. The furnace lining is made of imported refractory materials, which have good thermal insulation performance, high temperature resistance, and resistance to rapid heating and cooling.

#### Technical Specifications:

category	
parameter	1200 degrees
Maximum operating temperature	1200 degrees
Control range	80 to 1200 degrees
temperature sensing	Type K thermocouple, temperature measurement range 0-1320 degrees Celsius
element furnace chamber dimensions (mm)	200*200 (height not exceeding 1.8m)
Heating element	
Installation location	Vertically installed on both sides of the furnace
Temperature control accuracy	±1 degree (integrated circuit control, no overshoot)
Furnace temperature uniformity	±5 degrees
heating rate	The heating rate is freely adjustable, with the following range: fastest heating rate 20 degrees per minute (20 degrees/min), slowest heating rate... Temperature rate: 1 degree per hour (1 degree/h)
Heating element	silicon carbide rods
Furnace body	The furnace body is manufactured using CNC machine tools, and undergoes polishing, grinding, pickling, phosphating, powder coating, and high-temperature baking. The finished product features a two-tone design, a novel and attractive appearance, and is resistant to oxidation, acids and alkalis, corrosion, and high temperatures. It is also easy to manufacture. Advantages such as cleaning
Furnace body structure	The electric furnace body adopts an air-cooled double-layer furnace body structure. Effective air-cooling guide baffles ensure overall cold air circulation within the furnace shell, maximizing... After the heating element's conductive sheet is cooled completely, it is discharged from the furnace body, avoiding high-temperature oxidation of the conductive sheet and ensuring good performance. Good working environment
pressure	200 tons
Pressure regulation	Digital display with manual adjustment; preset pressure allows for automatic pressure reduction.

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press	Electric precision hydraulic press
Pressure display	Digital display, unit (N Newtons)
journey	Itinerary is adjustable
Pressure holding	Equipped with an imported solenoid valve, it maintains pressure very well.
Furnace mouth combination	The furnace opening has 3-4 layers of tapered stepped soft seals, with elastic high-temperature sealing strips arranged on the steps, which can effectively absorb the heat from the furnace opening. Expansion of the refractory material on the loading platform;
Material grinding tools	(Provided by the customer)
thermal insulation materials	It adopts a three-layer insulation system, consisting of alumina fiber cotton, alumina fiberboard, and alumina polycrystalline fiberboard, which is energy-saving. The effect is more than 80% of that of an old-fashioned electric stove.
Refractory materials	High-purity alumina zirconium-containing fiberboard
Furnace body outer shell temperature	For long-term use without shutting down the furnace, the outer casing temperature should be less than 45 degrees Celsius.
Protect	It adopts an integrated modular control unit, ensuring accurate control precision, and features dual-loop control and dual-loop protection. It features overshoot, undershoot, thermocouple interruption, phase loss, overvoltage, overcurrent, overtemperature, current feedback, and soft start. Protect
control	The thyristor module employs closed-loop technology for trigger control, using phase-shift trigger control or zero-crossing triggering, to control the output voltage. The current or power is continuously adjustable, exhibiting constant voltage, constant current, or constant power characteristics; the current loop is the inner loop, and the voltage... The outer loop limits the voltage regulator's output current to the rated current when a sudden load is applied or the load current exceeds the current limit. Within the current range, ensure the output and voltage regulator operate normally; simultaneously, the voltage loop also participates in regulation, ensuring the voltage regulator's output... The current is limited within the rated current range, maintaining the output current and voltage with sufficient adjustment margin. This constant current and voltage ensures the protection of the heating element from excessive current and voltage surges, achieving safe and reliable control. Results and control precision.
Display parameters	Real-time temperature, temperature range number, time period, remaining time, output power percentage, voltage, current, etc.
Button	It uses imported buttons with a lifespan of over 100,000 cycles and comes with an LED indicator.
Temperature profile setting	It features intelligent temperature control, pressure setting, data reports, and historical curves.

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Multiple curve inputs	The 30-segment programmable control function allows input settings: 30 segments for one curve, 14 segments per curve for two curves, and so on for three curves. Nine curve segments per line, or five curve segments per line; multiple curves can be entered simultaneously and can be called up arbitrarily during use.
Communication interface	The computer system can control and display the temperature profile.
Warranty coverage	Two sets of rods, one crucible tong, and one pair of high-temperature gloves.
and duration of included accessories	The electric furnace comes with a one-year free warranty, but the heating element is not covered by the warranty.
Precautions	<ol style="list-style-type: none"> <li>1. To avoid affecting the lifespan of the electric furnace, we recommend a maximum heating and cooling rate of 10-20°C/min. (Rapid heating at high temperatures will shorten the lifespan of the heating element.)</li> <li>2. After a period of use, minor cracks may appear in the furnace chamber of this autoclave. This is normal and will not affect its use. It can be repaired with an alumina coating.</li> <li>3. It is not recommended to introduce corrosive gases. If you need to introduce highly corrosive gases such as sulfur (S) or sodium (Na), please inform us in advance so that we can perform special treatment on the furnace chamber.</li> <li>4. High-temperature solutions must not leak onto the furnace bottom. To prevent this, a pad or alumina powder can be used for isolation.</li> <li>5. The instrument should be placed in a well-ventilated, dry place.</li> </ol>
Shipping Information	<ol style="list-style-type: none"> <li>1. The electric furnace is packaged in three layers: wrapped in foam paper, then wrapped in plastic film, and finally packed in a wooden crate.</li> <li>2. Free domestic door-to-door delivery (free delivery within city limits).</li> <li>3. We will bear the responsibility for any damage that occurs during the transportation of the electric furnace.</li> <li>4. Logistics methods: truck, rail, ship (foreign trade export), air freight (foreign trade export), distance...</li> </ol> <p>For nearby locations, our company will dispatch a dedicated vehicle for transportation (packaging includes wooden pallets and cardboard boxes).</p>

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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Website addresses: [www.gwdl.com](http://www.gwdl.com), [www.gwdlcom.cn](http://www.gwdlcom.cn), [www.gwdl.org](http://www.gwdl.org), [www.gwdl.cn](http://www.gwdl.cn)

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