



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
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1200 °C fire assay furnace, model **GWL-1200 °C**



Applications of electric furnaces for fire assays: Fire assays are used in mineral exploration using geochemical principles.

The purpose of exploration is to use chemical methods to help clients locate the geographical location of sedimentary deposits and the extent of discovered deposits.

Extended scope. Logging geochemistry includes the analysis of the following samples: cores, rocks, river sediments,

Soil, glacial debris, or vegetation, etc.

The control panel is equipped with an intelligent temperature regulator to control the power switch, main heating start/stop button, and electric...

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This product features a voltage meter, ammeter, and computer interface for real-time monitoring of the system's operating status.

The circuit relies on a solid-state circuit, has a good working environment, is resistant to interference, and the furnace shell temperature rises by 5°C at high temperatures.

The working environment has been greatly improved, with microcomputer program control, programmable curves, and fully automatic heating/cooling.

Temperature control parameters and programs can be modified during operation, making it flexible, convenient, and easy to use.



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category	
parameter	1200 degrees
Maximum operating temperature	1200 degrees
Long-term operating temperature	1200 degrees
The control range is	80 to 1200 degrees
Furnace size	Depth x Width x Height (mm): Depth 430 x Width 250 x Height 200
Number of samples per melting point	12
Voltage	380v
power	20kW
Temperature sensing element	K thermocouple, temperature measurement range 0-1350 degrees Celsius
Heating element mounting position	Vertically installed on the inner wall of the furnace
Heating element	Silicon carbide rods are used as heating elements. These U-shaped, uniform-diameter silicon carbide rods are non-metallic, high-temperature heating elements made primarily of high-purity a-SiC. They feature rapid heating, high thermal efficiency, long lifespan, and resistance to high temperatures. It is characterized by easy deformation, simple installation, operation and maintenance, and the ability to withstand temperatures up to 1500 degrees Celsius.
Temperature control accuracy	±1 degree (integrated circuit control, no overshoot)
Furnace temperature uniformity	±5 degrees (depending on the size of the furnace; larger furnaces can use multi-point control to achieve better furnace temperature uniformity).
heating rate	The heating rate is freely adjustable, with the following range: fastest heating rate 15 degrees per minute (non-linear heating), slowest heating rate 1 degree per hour (1 degree/h).
touchscreen	The 7-inch touchscreen displays heating program settings, historical data curves, data reports, and real-time power consumption.
Furnace body	The furnace body is machined using CNC machine tools, and undergoes polishing, grinding, pickling, phosphating, powder coating, and high-temperature baking. It features a two-tone design, a novel and attractive appearance, and possesses advantages such as oxidation resistance, acid and alkali resistance, corrosion resistance, high-temperature resistance, and easy cleaning.
Furnace body structure	The electric furnace body adopts a double-layer air-cooled structure. Effective air-cooling guide baffles ensure overall cold air circulation within the furnace shell, ultimately cooling the conductive plates of the heating elements before they are discharged from the furnace body. This prevents high-temperature oxidation of the conductive plates and guarantees a good working environment.
The furnace door is opened electrically or pneumatically	The furnace door is opened electrically or pneumatically from the top, and the opening angle and closing height are controlled by a foot switch.

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Sampling clamps	carbon steel or cast iron
Furnace loading car	Powder coated carbon steel casing
Melting mold	cast iron
Refractory materials	The furnace lining is made of vacuum-formed high-purity alumina lightweight material. Lightweight hollow spherical alumina plates are used in areas prone to material handling and load-bearing (furnace opening and bottom). It has high operating temperature, low heat storage, resistance to rapid heating and cooling, no cracking, no slag shedding, and good heat preservation performance (energy saving effect is more than 80% of that of old-style electric furnaces).
thermal insulation materials	It adopts a three-layer insulation system, consisting of aluminum silicate fiberboard, alumina fiberboard, and alumina (polycrystalline) fiberboard, achieving an energy-saving effect of over 80% compared to traditional electric furnaces.
Furnace shell temperature	For long-term use without shutting down the furnace, the outer casing temperature should be less than 45 degrees Celsius.
Protect	The system employs an integrated modular control unit, ensuring accurate control precision. It also features dual-loop control and dual-loop protection, providing protection against overshoot, over-adjustment, under-adjustment, thermocouple breakage, phase loss, overvoltage, overcurrent, overtemperature, current feedback, and soft start.
control	Employing closed-loop technology with thyristor module trigger control, using phase-shift trigger control or zero-crossing triggering, the output voltage, 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 loop is the outer loop. When a sudden load is applied or the load current exceeds the current limit, the output current of the voltage regulator is limited to the rated current range, ensuring normal operation of the output and the voltage regulator. Simultaneously, the voltage loop also participates in regulation, limiting the output current of the voltage regulator to the rated current range, maintaining constant output current and voltage with sufficient adjustment margin. This protects the heating elements from excessive current and voltage surges, achieving safety. Highly reliable control effect and control accuracy.
Display parameters	Real-time temperature, temperature range number, time interval, remaining time, output power percentage, voltage, current, etc.
Temperature profile setting	Employing an intelligent temperature controller, it offers multiple adjustment modes including standard PID, AI-based APID, and MPT. It features self-tuning and self-learning capabilities, exhibiting excellent control characteristics with no overshoot or undershoot. It boasts 30-segment programmable control, enabling temperature rise and fall control with arbitrary slopes. Programmable/operable commands such as jump (loop), run, pause, and stop are available, and the program can be modified at any time during operation. Utilizing an AI-powered adjustment algorithm with curve fitting capabilities, it can obtain...

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	Smooth and even curve control effect;
Multiple curve inputs	The 30-segment programmable control function allows input settings; one curve can be set to 30 segments, and two curves can be set to 30 segments. 14 curve segments/line; 9 curve segments/line; 5 curve segments/line. /line; Multiple curves can be entered simultaneously and can be called up arbitrarily during use.
Communication interface	The electric furnace is equipped with an RS485 communication interface, with a communication distance of up to 1200 meters. It can be controlled via computer to start, pause, stop, set and read heating curves, and configure parameters. It offers high reliability and ease of use, with the computer screen displaying the information. The display provides rich information, showing measured values, setpoints, output values, and time intervals. The segment number, temperature rise curve, and power percentage curve can be stored on the computer. The stored temperature rise curve can be called up at will, and the given values and commonly used parameters can be modified. The time interval of historical curves and historical reports can be filtered (1 second to 1 hour) and can be saved for a long time.
Random accessories	Two heating elements, two sets of rods, one crucible tongs, and one pair of high-temperature gloves.
Warranty Scope and Period: The electric furnace is covered by a one-year free warranty; the heating element is not covered by the warranty (natural damage within three months is exempt from warranty).	(Replacement fee)
Packing list	One electric furnace, two heating elements, two sets of rods, one pair of high-temperature gloves, one instruction manual, one certificate of conformity, one acceptance report (factory inspection report), and one sales delivery note.

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