



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
ISO45001:职业健康安全管理体系认证
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



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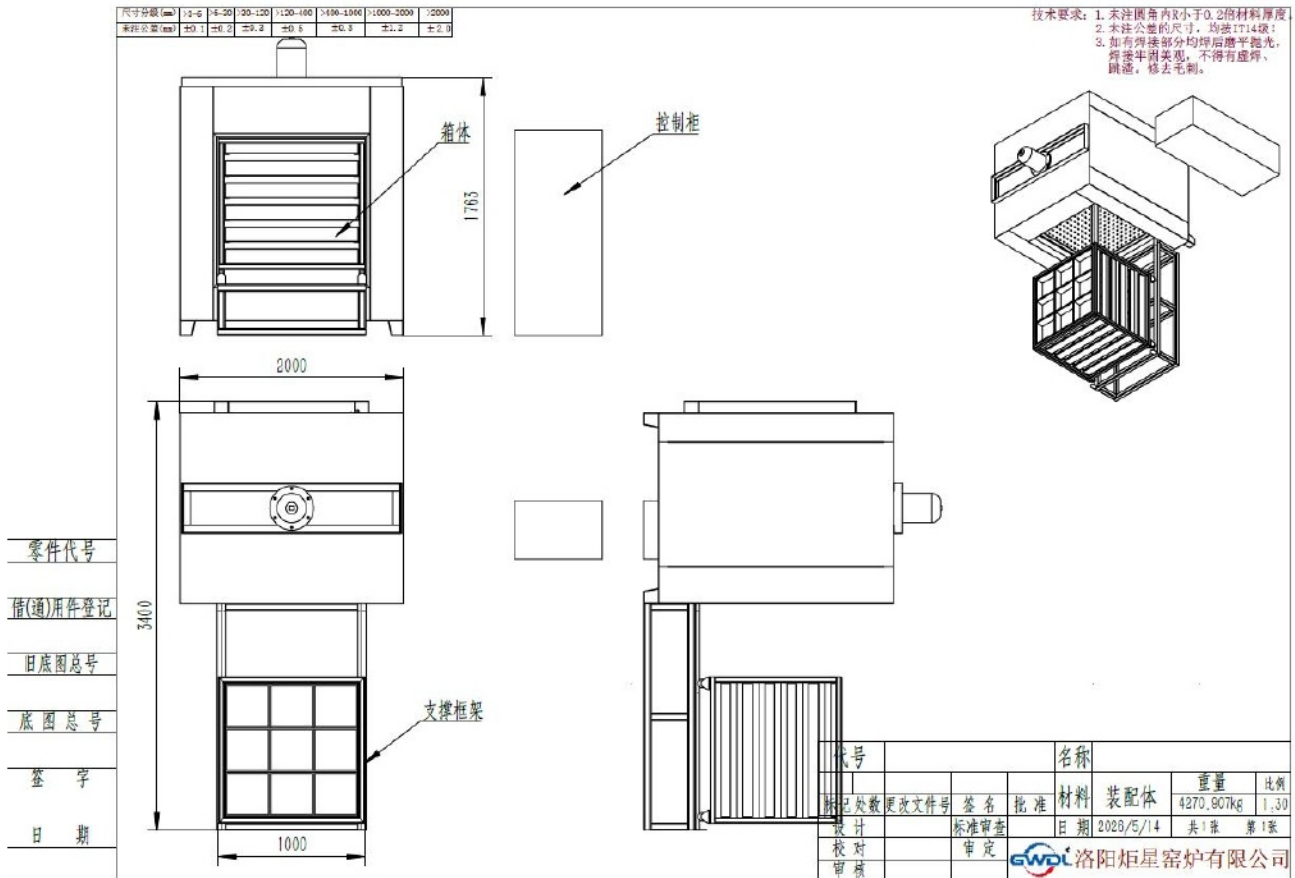


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The GWDL-XL series 800°C high-temperature drying oven features an integrated compact design combining the control system and furnace body, as shown in the figure. The furnace chamber is insulated with vacuum-formed, high-purity, lightweight alumina fiber insulation material.

This equipment features high-temperature alloy resistance wire heating elements and is specifically designed and manufactured for university laboratories, research institutes, and industrial enterprises. It is widely used in sintering, melting, analysis, and production processes of ceramics, metallurgy, electronics, glass, chemical materials, machinery, refractory materials, new materials, specialty materials, building materials, metals, non-metals, and various composite materials.

The control panel is equipped with an intelligent temperature controller, power switch, main heating start/stop button, voltmeter, ammeter, and computer communication interface, enabling real-time monitoring of system operation. The device features a reliable integrated circuit design, offering excellent operational stability and anti-interference performance. Even at the highest operating temperature, the outer surface temperature of the furnace remains $\leq 45^{\circ}\text{C}$, significantly improving the working environment.

The equipment is controlled by a microcomputer-based PID program, featuring programmable temperature ramp curves to achieve fully automatic heating and cooling cycles. Temperature parameters and programs can be modified during operation, offering flexible adjustment and convenient operation.

Temperature control accuracy: $\pm 1^{\circ}\text{C}$, no overshoot

Temperature control accuracy: $\pm 1^{\circ}\text{C}$

Maximum heating rate: $\leq 20^{\circ}\text{C}/\text{min}$

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The furnace lining is entirely made of vacuum-formed, high-purity, lightweight alumina fiber material, featuring high operating temperature, low heat capacity, excellent thermal shock resistance, and superior insulation performance. The energy-saving effect is over 60% higher compared to traditional electric furnaces.

The equipment features a well-designed structure with a double-layer furnace shell and air-cooled heat dissipation system, significantly shortening both experimental and production cycles.

Project	Specifications
Model	GWDL-800HX
Furnace dimensions	W1000 × D1000 × H1000 mm
Power supply	AC 415V, 50Hz (output)
Temperature range	Room temperature to 800°C
Temperature sensor	Type K Thermocouple (0~1320°C)
Heating element	High-temperature alloy resistance wire
Heating element arrangement	Evenly distributed on both sides and the bottom of the furnace
Temperature control accuracy	±1°C (controlled by integrated circuit, no overshoot)
Temperature uniformity	≤±5°C (depending on furnace chamber size)
Hot air circulation system	Top hot air stirring system
Fan motor	0.75 kW
Wind turbine	10.5-inch 310S stainless steel centrifugal impeller
Fan control	Variable frequency drive with stepless speed control
PLC interlock (optional)	Support (fan speed linked with temperature curve)
Insulation material	Multilayer high-purity ceramic fiber board
Furnace lining material	The furnace lining is entirely made of vacuum-formed, high-purity, lightweight alumina fiber material, featuring high operating temperature, low heat capacity, excellent thermal shock resistance, and superior insulation performance. The energy-saving effect is over 60% higher compared to traditional electric furnaces.
Furnace structure	Dual-layer air-cooled structure
Cooling system	Directional air-cooled circulation system
Surface temperature	≤45°C (continuous operation)
Surface Treatment	CNC machining, polishing, pickling, phosphating, powder coating, high-temperature baking
Structural Features	Antioxidant, acid and alkali resistant, corrosion-resistant, easy to clean
Door opening method	180-degree side-opening axial furnace door
Furnace door locking system	Elastic Locking System (Thermal Expansion Compensation)
Sliding system	Bottom guide rail + trolley platform
Sample rack	Refer to the dimensional drawing. Constructed with a 316 stainless steel frame, suitable for long-term use at temperatures up to 700°C.
Control method	Closed-loop SCR phase control
Output mode	Constant voltage / constant current / constant power
Protection system	Over-temperature, over-current, over-voltage, phase loss, soft start, and sensor fault protection
Control Architecture	Dual-loop (voltage outer loop + current inner loop)
Display parameters	Temperature, program segment number, remaining time, output power %, voltage, current

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Push button switch	Imported button (over 100,000 cycles lifespan) with LED indicator
Temperature Controller	Intelligent PID / APID / MPT Self-Learning System
Program capacity	50 segments
Programming Function	Heating/holding, circulation, pause, resume; editable during operation
Multiple curve input	1 curve (50 segments) / 2 curves (each with 28 segments) / 3 curves (each with 15 segments) / 5 curves (each with 9 segments)
Control algorithm	Smooth temperature control algorithm based on AI curve fitting
Communication interface	RS485
Standard accessories	Crucible tongs (1 piece), high-temperature gloves (1 pair)
Warranty period	1 year (excluding heating element)
Heating Element Warranty	Not covered by warranty (free replacement within 3 months for natural damage)

Standard accessories

坩埚钳



高温手套



2、触摸屏控制系统展示：



Project Name	Parameters
Touch screen functionality	7-inch TFT true color display
Dimensions	206W × 156H × 50D(mm)
Resolution	800 × 480
Backlight	LED
Power	5W
Weight	1Kg

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Language	English (customizable)
Full-screen display and operation	Instrument interface, bar chart, historical trends, data reports, alarm information, data export, process flow, system management, etc.
Control object	Temperature, pressure, flow rate, liquid level, etc.
Control the number of furnaces	1-6 units
Temperature control	Touch screen + high-precision integrated module
Start heating up	Touch operation
Temporary insulation	Touch operation
Stop warming up	Touch operation
Temperature curve programming	Touch operation, 30 segments per curve
Number of temperature curve storage	Infinite (each curve can be named in both Chinese and English)
Real-time status display	Running curve name, segment number, time, segment duration, digital temperature, real-time curve, 100% power output
Segment-specific startup (cross-segment startup)	Touch operation
Curve range	Adjustable
Historical Curve (Graph)	Approximately 20 months of storage
Data Report (Excel)	Approximately 20 months of storage, capable of displaying multiple points simultaneously (expandable via USB drive)
Historical curve and report recording interval (disk storage)	Adjustable from 1 to 3600 seconds, with multi-point simultaneous display (expandable by inserting a USB drive)
Alarm indication	Color change (red)
Alarm message language	English display (alarm time and event description)
Data Export Interface	USB
Printer interface	Parallel port
Touch screen operation protection	Password protection enabled (operations prohibited without password)
Communication port	RS485

Thank you for reaching out to us!

Thank you to get in touch with us!

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Company Name: Luoyang Ju Xing Kiln Co., Ltd.

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