



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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Technical data for **GWL-1100XL S** top-opening box-type atmosphere sealing furnace





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Technical indicators

category parameter	1100 degrees
Model	GWL-1100XLS
Specifications (Furnace Chamber Dimensions), Power	Furnace dimensions (depth-width-height) mm: 1000x1000x800 380V
Supply	65KW
(AC) , Power Control Range,	80 to 1100 degrees
Temperature Sensing	Thermocouple type K, temperature range 0-1320 degrees Celsius
Element,	Three (one on the left and right, one in front and back, and one at the bottom)
Temperature Control Point, Heating	Evenly distributed around the furnace and at the bottom
Element Installation	Uses imported Kanthal resistance wire
Position, Heating	±1 degree (integrated circuit control, no overshoot)
Element Temperature Control Accuracy, Furnace Temperature Uniformity	±5 degrees (depending on furnace size)
Hot air mixing	The function of hot air stirring: Air vanes are installed at the top of the furnace. The rotation of these vanes stirs the temperature inside the furnace. The uniform distribution of the material ensures uniform temperature within the furnace.
Agitator blades,	310S stainless steel
agitator motor, and speed chiller	The mixing motor is water-cooled, and its speed is infinitely variable via a frequency converter (with an additional switch for separate control). 2P chiller
heating rate	The heating rate is freely adjustable, with an adjustment range of: fastest heating rate 15 degrees per minute (15 degrees/min), slowest... The heating rate is 1 degree per hour (1 degree/h).
Furnace body structure	The furnace body is sealed with high-temperature fluororubber rings. The furnace opening and top sealing positions are machined using CNC machine tools. The furnace opening features a water-cooling structure to dissipate heat from the sealing ring, preventing overheating and damage. The furnace power interface uses a genuine... Empty electrodes ensure a sealed and durable seal, and are manufactured through processes such as polishing, grinding, pickling, phosphating, powder coating, and high-temperature baking. The finished product has a novel and attractive appearance, and possesses advantages such as oxidation resistance, acid and alkali resistance, corrosion resistance, high temperature resistance, and easy cleaning. point
Furnace door opening method	The furnace features electric lifting, pneumatic locking, and a handle switch that controls both opening and closing heights. The furnace body is entirely sealed.
Refractory materials	The furnace lining is made of vacuum-formed high-purity alumina lightweight material. Areas prone to contact during material handling (furnace opening, furnace...) The base is made of lightweight hollow spherical alumina plate, which has a high operating temperature, low heat storage, and excellent resistance to rapid heating and cooling, as well as good thermal insulation performance. Good (energy saving effect is more than 80% of that of old-fashioned electric stoves)
thermal insulation materials	Three layers of insulation are used: aluminum silicate fiberboard, alumina fiberboard, and alumina (polycrystalline) fiberboard. Its energy-saving effect is more than 80% of that of old-fashioned electric stoves.
Furnace shell temperature	For long-term use without shutting down the furnace, the outer casing temperature should be less than room temperature +20 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, overshoot, undershoot, thermocouple interruption, phase loss, overvoltage, overcurrent, overtemperature, current feedback, and soft start. Protection

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control	Employing closed-loop technology and thyristor module trigger control, this system uses a phase-shift trigger control method, allowing for continuous adjustment of output voltage, current, or power. It features 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 safe, reliable, and precise control. The device features a 10-inch screen for setting temperature curves, including temperature, temperature range number, time interval,
Display parameters	remaining time, output power percentage, voltage, and current. It employs an intelligent temperature controller with standard PID, AI-based APID, or MPT
on touchscreen	adjustment modes. It boasts self-tuning and self-learning capabilities, exhibiting excellent
Temperature profile setting	control characteristics with no overshoot or undershoot. It offers 30-segment programmable control, enabling arbitrary slope temperature rise and fall control. 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 adjustment algorithm with curve fitting capabilities, it achieves smooth and even curve control. The 30-segment programmable control function allows input settings: 30 segments for one curve, 14 segments for two curves, 9 segments for three curves, and 5 segments for five curves. Multiple curves can be input simultaneously and recalled arbitrarily during use. The exhaust port is DN30 at the top and has valves. Eight air inlets are evenly distributed on the left and right sides of the furnace. Two
Multiple curve inputs	flow meters are integrated into one air inlet. The air inlet switch can be controlled by the PLC program to stop the air intake.
Exhaust port	
air intake	
Warranty	Includes a 310S high-temperature pad to prevent impact, a refractory
coverage and period	crucible tong, and a pair of high-temperature gloves. The
for furnace bottom plate and related accessories	electric furnace comes with a one-year free warranty; heating elements are not covered by the warranty (free replacement within three months
Precautions	for natural damage). 1. To avoid affecting the furnace's lifespan, we recommend a maximum heating and cooling rate of 10-20 \dot{y} . /min (Rapid heating will shorten the lifespan of the heating element). 2. This box furnace does not use a vacuum sealing structure, so flammable and explosive gases must not be introduced. 3. After a period of use, minor cracks may appear in the furnace chamber of this box furnace. This is a normal phenomenon and will not affect... It can be used without interference, and can be repaired with an aluminum oxide coating. 4. 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. We will perform special treatment on the furnace chamber. 5. High-temperature solution must not leak onto the furnace bottom; to avoid this, a pad or alumina powder can be used for isolation. 6. The instrument should be placed in a well-ventilated, dry place. 7. Use a metal 310S pad to prevent impact to the refractory material. 8. Fixed heating rate, audible and visual alarm after operation. The package includes one electric furnace, one crucible tong, one pair of high-
Packing list	temperature gloves, one instruction manual, one certificate of conformity, one acceptance report (factory inspection report), and one sales delivery note. 1. The electric furnace is packaged in two layers: wrapped in sponge paper, then wrapped in
Shipping Information	plastic film, and finally secured with an iron frame. Certainly,



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2. Free delivery within China (free delivery within the city). 3. We will bear any damage that occurs during the transportation of the electric furnace. 4. Logistics methods: truck, rail, ship (foreign trade export), air (foreign trade export). For nearby locations, our company will arrange special vehicles for transportation (packaging is wooden pallets and cardboard boxes).
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Thank you for contacting us!

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