



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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Technical specifications of 1100-degree open-type tubular furnace



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Luoyang City, Henan Province



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Category Parameter	1100 degrees
Model	GWL-1100KQGA
Specifications (Furnace Chamber Dimensions):	Furnace Chamber Dimensions (Depth-Width-Height) mm: Diameter 159mm * Heating Zone 1500mm; Furnace Tube Material and Length: Stainless Steel Tube
2000mm; Power Supply: AC; Maximum Operating Temperature: Suitable for long-term use; Temperature	
Control Range:	380V/22kw, 1100°C to
[Information missing - likely related	1000°C, 80°C
to temperature sensing element and heating	to 1100°C
element installation position];	thermocouple, K-type,
Temperature Control	temperature measurement range 0-1320°C, ±1°C around the furnace tube
Accuracy: [Information missing - likely	(integrated circuit
related to temperature control accuracy);	control, no overshoot), ±1°C (depending on furnace size; large furnaces can use multi-
Furnace temperature uniformity	point control for better temperature uniformity). Heating rate is freely adjustable, with the following range: fastest heating rate 15°C/min, slowest heating rate 1°C/h. Resistance wire is used as the
heating rate	heating element.
Heating element	
temperature zone	The dual-temperature
Furnace body	zone controlled furnace body is machined using CNC machine tools, and is manufactured through polishing, grinding, pickling, phosphating, powder coating, and high-temperature baking. It features a novel and attractive two-tone appearance and possesses advantages such as oxidation resistance, acid and alkali resistance, corrosion resistance, high-temperature resistance, and
Furnace body structure	easy cleaning. The furnace body adopts an internationally advanced air-cooled double-layer structure. Effective air-cooling guide baffles ensure overall cold air circulation in the furnace shell, ultimately cooling the conductive sheets of the heating elements before they are discharged from the furnace body, preventing high-temperature oxidation of the conductive sheets and ensuring a good working environment.
Furnace door opening method	The top and bottom
Refractory materials	opening furnace lining is made of vacuum-formed high-purity alumina lightweight material. Areas prone to material handling (furnace opening, furnace bottom) use lightweight hollow spherical alumina plates, offering high operating temperatures, low heat storage, resistance to rapid heating and cooling, no cracking, no slag shedding, and excellent insulation performance (energy saving effect is over 80% of that of traditional electric furnaces). It employs three layers of
thermal insulation materials	insulation: aluminum silicate fiberboard, alumina fiberboard, and alumina (polycrystalline) fiberboard, achieving energy saving effect of over 80% of that of traditional electric furnaces.
Furnace shell temperature	For long-term uninterrupted operation with an outer casing temperature below 45
Protect	degrees Celsius, an integrated modular control unit is employed, ensuring accurate control. A dual-loop control and dual-loop protection system is designed, providing protection against overshoot, over-adjustment, under-adjustment, thermocouple breakage, phase loss, overvoltage, overcurrent, overtemperature, current feedback, and soft start. Closed-loop technology
control	with thyristor module trigger control, phase-shift trigger control, or zero-crossing triggering is used, allowing for continuous adjustment of output voltage, current, or power, exhibiting constant voltage, constant current, or constant power characteristics. The current loop is the inner loop, and the voltage loop is the outer loop. In case of sudden load application or load current exceeding the current limit, [further protection is provided].

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洛阳炬星电窑炉
LUOYANG JUXING KILN CO., LTD

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	The voltage regulator's output current is limited to the rated current range to ensure normal operation of the output and the regulator. At the same time, the voltage loop also participates in the regulation, limiting the regulator's output current to the rated current range. With sufficient adjustment margin, the output current and voltage are kept constant. This protects the heating element from excessive current and voltage surges, achieving a safe and reliable control effect and control accuracy.
The display parameters include	temperature, temperature range number, time interval, remaining time, output power percentage, voltage, and current. Imported buttons have a lifespan exceeding
Button	100,000 cycles and include LED indicator lights. An intelligent temperature controller is employed, offering multiple adjustment modes
Temperature profile setting	such as standard PID, AI-based APID, or MPT. It features self-tuning and self-learning functions, excellent control characteristics with no overshoot or undershoot, and 30-segment programmable control. It can achieve arbitrary slope temperature rise and fall control and has programmable/operable commands such as jump (loop), run, pause, and stop, allowing modification of the program at any time during operation. The AI-based adjustment algorithm with curve fitting capabilities achieves smooth and even curve control.
Multiple curve inputs include	Two 30-
the warranty	segment heating elements, two heat insulation plugs, one crucible tong, and one pair of high-temperature gloves are included. The electric furnace
coverage and duration of random accessories.	is covered by a one-year free warranty, but the heating elements are not covered by the warranty.

Thank you for contacting us!

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