Technical parameters

category parameter	**1200** degrees
Model	GWL-1200KQGA
Specifications (Furnace Chamber Dimensions) Furnace Chamber Dimensions (Depth-Width-Height) mm: Diameter 200 * Heating Zone 1000 mm	
The furnace tube has a diameter of **200mm, a total length of 1400mm, a 600mm wide end ,** and **a 200mm** conical discharge end .	
AC power	380V/15KW
Rated operating temperature: 1200 degrees Celsius	
Operating temperature up to 1150 degrees Celsius	
The control range is 80 to 1400 degrees.	
Temperature sensing	Thermocouple type K, temperature range 0-1350 degrees Celsius
element and heating element installation position around the furnace tube	
Furnace tube material: quartz glass tube	
rotational speed	Adjustable **from 1-15 r/min**
Atmosphere Interface and Safety	Air inlet, air outlet: 1 air inlet each All are equipped with float flow meters 0-30L
Furnace tube seal: 304 stainless steel flange, silicone sealing ring	
Vacuum level -0.1 MPa Mechanical vacuum pump	
Furnace tube tilt angle **1-15** degrees	
Temperature control accuracy	±1 degree (integrated circuit control, no overshoot)
heating rate	The heating rate is freely adjustable, with an adjustment range of up to 10 degrees per minute (10 degrees/min). If the heating rate is slow, it will be 1 degree per hour (1 degree/h).
Heating element	The heating element is made of high-temperature alloy resistance wire.
Furnace body	The furnace body is machined using CNC machine tools and undergoes polishing, grinding, pickling, phosphating, powder coating, and high-temperature treatment. Made through baking and other processes, featuring a two-tone color scheme, a novel and attractive appearance, and possessing antioxidant, acid and alkali resistant properties. Advantages include corrosion resistance, high temperature resistance, and easy cleaning.
Furnace body structure	The electric furnace body adopts an air-cooled double-layer furnace body structure, and the effective air-cooling guide baffles ensure that the entire furnace shell is cooled by air. The heating element is circulated and eventually cooled before being discharged from the furnace, thus preventing the conductive plates of the heating element from... High-temperature oxidation ensures a good working environment.
Refractory materials	The furnace lining is made of vacuum-formed alumina lightweight material, and the areas prone to contact when handling materials (furnace opening, furnace mouth, etc.) are protected. The furnace bottom is made of lightweight hollow spherical alumina plate, which has high operating temperature, low heat storage, and resistance to rapid heating and cooling. No cracks, no flaking, and good thermal insulation performance
thermal insulation materials	It employs a three-layer insulation system, consisting of: aluminum silicate fiberboard, alumina fiberboard, and polycrystalline alumina. Fiberboard
The furnace shell temperature remains below 45 degrees Celsius during continuous operation without shutting down the furnace.	
Protect	An integrated modular control unit is adopted, ensuring accurate control precision. A dual-loop control and dual-return mechanism are also designed.

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	The circuit protection system features overshoot, overshoot, undershoot, phase loss, phase loss, overvoltage, overcurrent, overtemperature, current feedback, and soft start protection. It employs closed-loop
control	technology with thyristor module trigger control, 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 safe, reliable, and precise control.
Display parameters	Temperature, temperature segment number, time segment, remaining time, output power percentage, voltage, and current are all displayed using optimized
button	buttons with a lifespan exceeding 100,000 cycles, and are equipped with LED indicator lights. An intelligent temperature controller is
Temperature profile setting	employed, offering multiple adjustment methods including 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, enabling arbitrary slope temperature rise and fall control. It includes programmable/operable commands such as jump (loop), run, pause, and stop, and allows modification of the program at any time during operation. The AI-based adjustment algorithm with curve fitting capabilities achieves smooth and even curve control. The package includes four 30-segment heat insulation plugs, one crucible tong, and one pair of high-temperature gloves.
The warranty coverage and	
period for random	
accessories with multiple curve inputs:	The electric furnace is covered by a one-year free warranty, and the heating element will be replaced free of charge within three months if it is damaged due to non-human factors.
Shipping Information	1. The electric furnace is packaged in three layers: first wrapped in foam paper, then wrapped in plastic film, and finally packed in a wooden crate. 2. Free delivery within China (free delivery within city limits). 3. We will bear the responsibility for any damage that occurs during the transportation of the electric furnace. 4. Logistics methods: truck, rail, ship (foreign trade export), air freight (foreign trade export). For nearby locations, our company will arrange dedicated transportation (packaging is wooden pallets and cardboard boxes).

List of main components of Juxing kiln

Serial Number	Item Name		Classification						Manufacturer's	Notes
			1200 degrees	1400 degrees	1600 degrees	1700 degrees	1800 degrees	1900 degrees		

1. Outer shell		Double-layer shell	••••••						Juxing Kiln	
2	heating element	electric heater	High-temperature alloy resistance wire	silicon carbide rods	silicon molybdenum rod	Type 1800 silicon molybdenum rod	Type 1850 silicon molybdenum rod	Type 1900 silicon molybdenum rod	Juxing Kiln	
3	Electrical control section	Temperature controller	858P 858P 858P 858P 858P 858P						Xiamen Yudian	
4		thermocouple	K	S	B	B	B	B+ fiber	Taisho/ Bright	
5		Voltmeter	•••••• Chint							
6		ammeter	•••••• Chint							
7		SCR power regulator	••••••						Juxing Kiln	
8		contactor	••••••						Chint/ Delixi	
9		Air circuit breaker ••••••							Chint/ Delixi	
10		Button ••••••							Chint/ Delixi	
11		buzzer	••••••						Chint/ Delixi	
12		Quick Melt •••••• Ming Melt								

13		transformer	• • • • • •						Juxing Kiln	
14	Refractory and heat-insulating furnace	Ceramic fiberboard/module	1260 1500 1700 1800 1850					Zirconia fiber 2100	Juxing Kiln	
15		Insulating bricks at the furnace opening (inner door)	• • • • • •						Juxing Kiln	
16		Sintering plate	Quartz ceramics	Quartz ceramics	Corundum Mullite	Corundum Mullite	Corundum Mullite	Zirconia fiber 2100	Juxing Kiln	