



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



24h
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Tubular furnace technical specifications:

temperature	1200℃
project	
Voltage AC	380V
power	8KW
Maximum operating temperature	1200℃
Long-term operating temperature	1150℃
Temperature control accuracy	±1℃
Furnace tube material	Quartz glass tube

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Furnace tube dimensions	φ100*Heating Zone 300
The temperature uniformity within the	urnace is ±1γ (depending on the size of the heating chamber). For higher requirements, multi-point temperature control can be used.
Temperature sensing element and temperature measurement range	Nickel-chromium and nickel-silicon K temperature measurement range: 0-1350γ
Number of program curve segments	30 paragraphs
heating rate	Adjustable from 1γ/h to 40γ/min
Heating element	High-temperature alloy resistance wire
Location of heating element	Installation location: around the furnace tube, horizontal with the furnace tube.
Furnace body structure and materials	The electric furnace body adopts an advanced air-cooled double-layer carbon steel furnace body structure. The effective air-cooled guide baffles enable the overall cold air circulation in the furnace shell, which finally cools the conductive plates of the heating element and then discharges them from the furnace body, avoiding high-temperature oxidation of the conductive plates of the heating element and ensuring a good working environment.
Flow meter	float flow meter
Refractory insulation materials	The furnace lining is made of vacuum-formed high-purity alumina lightweight material, which has high operating temperature, low heat storage, resistance to rapid heating and cooling, no cracking, no slag shedding, and good heat preservation performance. It adopts
Security Protection	an integrated modular control unit with accurate control precision and is designed with dual-loop control and dual-loop protection, which has protection against overshoot, over-adjustment, under-adjustment, thermocouple segmentation, phase loss, overpressure, overcurrent, overtemperature, current feedback, and soft start. The hydrogen ignition device features a
Adding device	gas leak alarm system on the
	furnace body. During operation, a high-
Power off when door is opened	temperature opening mechanism disconnects the main heating circuit, significantly reducing the risk of electric shock during high-temperature material handling. It employs closed-loop technology with
Safe temperature control	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 voltage regulator's output current is limited to the rated current range, ensuring normal operation of the output and the regulator. Simultaneously, the voltage loop also participates in regulation, limiting the regulator's output current 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.



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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 achieves smooth and even curve control. The 50-segment
Number of segments in the heating curve	programmable control function allows input settings: 50 segments for one curve, 28 segments for two curves, 15 segments for three curves, and 9 segments for five curves. Multiple curves can be input simultaneously and recalled arbitrarily during use.
Furnace body temperature	γ45 degrees
Computer Interface	RS485 RS232 USB
Warranty coverage and period	The electric furnace comes with a one-year free warranty, but the heating element and furnace tube are not covered by the warranty (the heating element will be replaced free of charge if it fails naturally within three months).
Random spare parts	Two sets of rod fittings, one instruction manual, one certificate of conformity, one furnace door insulation brick, one crucible tong, one pair of high-temperature gloves, one tube furnace-specific crucible, and two sealing rings.

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