

1200-degree high vacuum tubular furnace quartz glass furnace tube



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Member Unit of China Heat Treatment Industry Association

ISO45001: Occupational Health and Safety Management System Certification

ISO14001: Environmental Management System Certification

High-Tech Enterprise / “Specialized and Sophisticated” Enterprise

Professional High-Temperature Heating Manufacturing Factory (-60° C ~ 2600° C)

1200° C High Vacuum Tubular Furnace - Technical Data

Parameter	1200° C Model
Power Supply (AC)	380V
Maximum Operating Temperature	1200° C
Long-Term Usable Temperature	1150° C
Control Range	80 to 1100° C
Temperature Control Accuracy	±1° C
Furnace Tube Material	Quartz glass tube (special-shaped tube available)
Furnace Tube Dimensions	Φ80 × 200 mm, heating zone 600 mm
Furnace Temperature Uniformity	±1° C (depends on chamber size; multi-zone control available for higher uniformity requirements)
Temperature Measurement Element & Range	Nickel-chromium/nickel-silicon Type K thermocouple, measuring range 0 - 1350° C
Heating Rate	Adjustable: fastest 20° C/min, slowest 1° C/h
Heating Elements	High-temperature alloy resistance wires

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Parameter

1200° C Model

Heating Element Location	Installed around the furnace tube, horizontal to the tube
Furnace Body Structure & Material	Air-cooled double-layer carbon steel structure. The directed air-cooling baffle enables overall cold air circulation inside the shell, finally cooling the heating element conductive strips and exhausting outside, preventing high-temperature oxidation of the conductive strips and ensuring a good working environment.
Flange	One set of sealing flanges, pressure gauge, and matching tools
Vacuum Pump	Two-stage rotary vane vacuum pump, pumping speed 2 L/min + molecular pump unit. Ultimate vacuum up to 1×10^{-4} Pa
Gas Inlet	Oxygen, nitrogen, argon, hydrogen, and other inert gases
Refractory Insulation Material	Furnace lining made of vacuum-formed high-purity alumina lightweight material; high service temperature, low heat storage, resistant to rapid heating/cooling, no cracking, no spalling, excellent insulation performance
Insulation Layers	Three-layer insulation: aluminum silicate fiber board, alumina fiber board, alumina (polycrystalline) fiber board. Energy-saving effect is over 80% compared to old-style furnaces.
Safety Protection	Integrated modular control unit with high control accuracy; dual-loop control and dual-loop protection designed. Protections against overshoot, overrun, underrun, thermocouple failure, phase loss, overvoltage, overcurrent, overtemperature, current feedback, and soft start are provided.
Door-Open Power-Off	The furnace is designed with a function to disconnect the main heating circuit when the furnace door is opened at high temperature, greatly reducing the risk of electric shock during high-temperature material retrieval.
Control	Adopts closed-loop technology with SCR module triggering, phase-shift trigger or zero-crossing trigger mode; output voltage, current, or power continuously adjustable. Features constant voltage, constant current, or constant power characteristics. Current loop as inner loop, voltage loop as outer loop. When sudden load or over-limit current occurs, limits output current within rated range to ensure normal operation of the regulator and protect heating elements from excessive current/voltage impact, achieving safe, reliable control and high precision. Maintains constant output

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Parameter	1200° C Model
Temperature Curve Setting	current and voltage with sufficient adjustment margin; thus protecting heating elements from inrush current/voltage and ensuring safe, reliable control and accuracy. Intelligent temperature controller with standard PID, artificial intelligence APID or MPT adjustment modes; self-tuning and self-learning functions; excellent no-overshoot/no-undershoot control; 30-segment program control (also described as 50-segment in later section); arbitrary slope heating/cooling; jump (loop), run, pause, stop commands; program can be modified during operation; AI algorithm with curve fitting for smooth control effect.
Program Segments	50-segment program control: 1 curve with 50 segments, 2 curves with 28 segments each, 3 curves with 15 segments each, 5 curves with 9 segments each; multiple curves can be stored and called anytime.
Furnace Shell Temperature	Room temperature +25° C
Computer Interface	RS485, RS232, USB
Warranty Scope & Period	One year free warranty for the furnace (heating elements and furnace tube not covered; heating elements naturally damaged within 3 months free replacement).
Standard Accessories	Two rod tools, one sample boat, one operation manual, one quality certificate, two quartz heat-insulating plugs, one crucible tongs, one pair of high-temperature gloves.

Thank you for getting in touch with us!

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

Company Address: No. 1, Xingye 1st Road, Science and Technology Industrial Park, Jianxi District, Luoyang City, Henan Province

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