

## Multi-temperature Zone Tube Furnace With Gas Control Cabinet (GWL-DWQGA)



### GWL Series 1200°C-1800°C High Temperature Multi-temperature Zone Tube Furnace

The equipment designed for pyrolysis, melting, analysis and production ceramics, metallurgy, electronics, machinery, chemical, glass, refractories, for develop new material, special materials, construction materials, the equipment is suitable for institutions of higher learning and laboratory of scientific research institute and industrial and mining enterprises.

The control panel equipped with the intelligent adjustment device, power control switch, main working/stop button, voltmeter, ammeter, Computer interface, Observe port / Air inlet port, for convenience to observe the furnace working status, the product using reliable integrated circuit, excellent working environment, anti-interference, the highest temperature of furnace shell temperature is less than 45 can greatly improve the working environment, micro computer program control, programmable setting temperature rise curve, Fully automatic temperature rise / cooling. Temperature control parameters and programs can be modified during operation, which is flexible, convenient and simple in operation.

Temperature Control Accuracy:  $\pm 1^{\circ}\text{C}$ , Temperature Constant Accuracy:  $\pm 1^{\circ}\text{C}$ . Fast Temperature rise rate, Maximum heating rate  $\leq 30^{\circ}\text{C}/\text{min}$ .

Furnace hearth materials made up by vacuum forming high purity alumina light materials (Will be changing due to the temperature required), High temperature for use, Less heat storage amount, Tolerance the extremely heating and cold, no crack, No dregs, Excellent thermal insulation performance (the energy saving effect is over 60% of the traditional furnace). Reasonable structure, Double layer furnace cover, Air cooling, Greatly shortening the experimental period.



Model	GWL-DWQGA (With Gas Control Cabinet)			
Working Temperature	1200℃	1400℃	1600℃	1700℃
Maximum Temperature	1250℃	1450℃	1650℃	1750℃
Heating Element	Silicon Carbide Rod		Silicon molybdenum rod	
Furnace Tube Diameter	30mm   50mm   60mm  80mm   90mm   100mm   110mm   150mm			
Length Of Heating Zone	150mm   250mm   300mm   400mm   500mm   600mm   700mm   1000mm   1200mm			
Temperature Rise Rate	Temperature Rise Rate Can Be Modify(1℃/h-30℃/min)			
Rated Voltage	380V			
Temperature Uniformity	±1℃			
Temperature Control Accuracy	±1℃			
Tube materials	1200℃: Stainless steel tube /Quartz tube / Corundum tube			
	1400℃-1700℃: Corundum tube			
Refractories	Import High Purity Alumina Fiber Board			
Standard Accessories	Heating Elements 2 Pieces, Specification Certificate, One Piece Insulation Brick, A Pair Crucible Pliers, One Pair Of High Temperature Gloves. One-piece special crucible for tube furnace, Two-piece seal rings			
<b>Characteristic:</b> Multi-temperature zone. 1、Temperature accuracy: ±1℃ ; Constant temperature: ±1℃(Base on Heating zone size ) 。 2、Simplicity for operation, programmable, PID automatic modify, automatic temperature rise, automatic temperature retaining , automatic cooling, unattended operation 3、Furnace tube uses 99 corundum tube or quartz tube 。 4、Furnace surface temperature approach the indoor temperature. 5、double layer loop protection. (over temperature protection, over pressure protection, over current protection, thermocouple protection, Power supply protection and so on) 6、Importing refractory, excellent temperature retaining effect, high temperature resistance. 7、Vacuum degree -0.1Mpa. 8、More gas options (Oxygen、Nitrogen、Argon、hydrogen and so on)				
Furnace Tube Diameter And Length And Atmosphere Can Be Customized, More Details Please Contact Us				
Pressure, Tube quality, Flux accuracy Control, Remote Control Can Be Customized				



Gas Control Cabinet	
Inlet gas type	2 options can be chosen (1-10 type gas can be chosen)
Mixture	adjusting the values of each Inlet flowmeter.
Valve	Imported stainless steel valve (ordinary valve, stainless steel valve, solenoid valve and so on can be choose)
Flowmeter	2 pieces 0-300 ml/Min (According to the quantity of air inlet, Mass flowmeter and Floating ball flowmeter and so on also can be selected)
Pressure test	Positive pressure、negative pressure double indicator pointer piezometer (digital display vacuum piezometer can be chosen)
Vacuum pump	Double rotary vane vacuum pumps, Pumping speed 2L/min
Air pipeline	Special PV hose for gas (clean stainless-steel tube can be used according to the demand of gas)
Pressure protection	The system is specially made to prevent the danger of closure of the exhaust port, the blockage of the exhaust port and the excessive pressure of the furnace tube. The signal is obtained by the electric contact pressure meter or pressure sensor then the drive control module will close the electromagnetic inlet valve and starts the electromagnetic exhaust valve and the alarm. to ensure the furnace can be used properly and safely.
Gas leak alarm	Base on gas atmosphere, to prevent the gas leak; Gas leakage alarm detected (indoor) air toxic, dangerous and other gas content exceeds a certain value, then the drive control module will shut-down the furnace, closes the inlet valve and open the air exhaust, to get the better and safety working environment.
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