



STGC-60-12

1200°C CVD Tube Furnace

Main Features

- >Includes Quartz glass tube with a set of stainless steel vacuum sealing flanges with valves and silicon O rings, fittings for connection of gas vacuum components.
- >Dual flanges support ensures better sealing and longer tube life.
- >One year warranty (consumable parts are not included), lifetime technical support.



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| 01 Quartz Tube | 09 Height Adjustable Wheel |
| 02 Mechanical Vacuum Gauge | 10 Digital Vacuum Gauge |
| 03 Gas Inlet | 11 Vacuum Angle Valve |
| 04 KF Sealing Flanges | 12 SS304 Flexible Bellow |
| 05 Flange Support | 13 Pump Operating Buttons |
| 06 Mechanical Pressure Gauge | 14 Digital Vacuum Gauge Panel |
| 07 Gas Valve | 15 Electronic Buttons |
| 08 Gas Flow Meter | 16 Built-in Vacuum Pump |



Chemical Vapor Deposition (CVD) tube furnaces feature a chamber with high quality alumina fiber insulation and high quality vacuum formed insulation resistance wire heating element, which ensures fast heat up, excellent temperature control and short cool down times; The CVD gas path system can be selected from one or three-way gas mass flow meters, and the gas mixing system can also be single-input and single-out. Accurate control of gas digital control, flow switch and flow time can be automatically controlled by touch screen to achieve unattended air control, accuracy: $\pm 1\%$ F.S, response time: $\leq 4\text{sec}$; The vacuum system adopts a vacuum pump.

The vacuum measurement uses a digital composite vacuum machine or a Pirani vacuum gauge. The measuring instrument is integrated on the temperature control panel for easy operation. Furnace operation is controlled by Shimaden® (Japan) 32-segment digital controller with built-in RS485 digital communications port and USB adaptor, allowing the user to connect to a PC for remote control and monitoring of the furnace. You can also save or export test results. All our furnaces are CE compliant.

Technical Parameters

Model	STGC-25-12	STGC-40-12	STGC-60-12	STGC-80-12	STGC-100-12	STGC-120-12	OEM
Reactor Quartz Tube (mm)	Φ25mm	Φ40mm	Φ60mm	Φ80mm	Φ100mm	Φ120mm	Any size
Heating Zone Length (mm)	300mm	300mm	300mm	300mm	300mm	300mm	
Type	Benchtop						
Furnace Structure	Alumina Ceramic Chamber, Temperature control system, Heating element, Furnace shell ,Main Electric Parts and other relative accessories						
Max Temperature	1200°C						
Continue Temp.	1100°C						
Power Supply	220V/1.8KW	220V/1.8KW	220V/2.6KW	220V/2.6KW	220V/2.6KW	220V/4KW	
Heating Element	High quality alloy resistance wire (HRE)						
Chamber Material	High temperature 1500 Type polycrystal alumina ceramic fiber material						
Temp Precision	$\pm 1^\circ\text{C}$						
Thermocouple	N type						
Temp Controller	SHIMADEN (Japan) brand intelligent microcomputer PID controller can program 4 groups 32 segments						
Electronic Parts	SCHNEIDER (France) electronics brand						
Heating Rate	$\leq 25^\circ\text{C}/\text{min}$ (suggest $15^\circ\text{C}/\text{min}$ for longer life using of furnace)						
Safety Protection	Overheat and thermocouple-break alarm						
Certification	ISO9001 /CE/ SGS						
Furnace Shell	High quality cold-rolled steel sheets CNC processing						
Insulation	High quality thermal insulation material to ensure a good uniformity						
Accessories	One pair of high temperature gloves, One pair of furnace hook, one catalog and operation manual						
Optional	Paperless recorder, Quartz /Alumina crucible, Mass flowmeter, Digital Vacuum Gauge						