

# STZ-8-12

## 1200°C Vacuum Chamber Furnace

### Main Features

- > Integrated stand Structure with vacuum system and gas supply system
- > Chamber Materials: Vacuum forming ceramic fiber with good temperature insulating effect and energy-saving.
- > SHIMADEN (Japan) Microprocessor based self-tuning PID control provides optimum thermal.
- > Long life type N thermocouple.
- > Built-in RS485 port and USB adaptor as optional setting for computer control . it need to add extra fees.
- > Vacuum pump : Generally molecular pump, diffusion pump, roots pump, mechanical pump can be chosen to meet various vacuum degree level requirements.
- > The furnace shell equipped gas intake valve , gas exhaust valve, and a vacuum port can through argon, nitrogen and other gases.



### Technical Parameters

Model	STZ-3-12	STZ-6-12	STZ-8-12	STZ-12-12	STZ-18-12	STZ-30-12	OEM
Inner Dimmension (WxDxH)mm	150x150x150	180x230x150	200x300x120	200x300x200	250x300x250	300x500x200	Any size
Type	Stand Type						
Furnace structure	Alumina Ceramic Chamber, Temperature control system, Heating element, Round Furnace shell ,Main Electric Parts and other relative accessories						
Max temperature	1200°C						
Continue Temp.	1100°C						
Power Supply	220V/2.5KW	220V/3KW	220V/5KW	220V/4KW	220V/6KW	380V/7.5KW	
Heating Element	High quality alloy resistance wire (HRE)						
Vacuum Degree	It will reached according to different vacuum pump system equipped and your budget & real requirement						
Chamber Material	High temperature polycrystal alumina ceramic fiber plate						
Temp Precision	±1°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	≤ 40°C/min ( suggest 15-20°C/min for longer life using of furnace )						
Safety protection	Overheat and Thermocouple-break Alarm						
Certification	ISO9001 /CE/ SGS						
Furnace shell	High quality cold-rolled round steel sheets CNC processing with good sealing effect						
Insulation	High quality thermal insulation material to ensure a good uniformity						
Accessories	One pair of high temperature gloves, One pair of crucible tong, one catalog and operation manual						
Optional	Paperless recorder, Gas supply system, Vacuum system, Digital vacuum gauge						

# STZ-3-14

## 1400°C Vacuum Chamber Furnace

### Main Features

- > Integrated stand Structure with vacuum system and gas supply system
- > Chamber Materials: Vacuum forming ceramic fiber with good temperature insulating effect and energy-saving.
- > SHIMADEN (Japan) Microprocessor based self-tuning PID control provides optimum thermal.
- > Long life type S thermocouple.
- > Built-in RS485 port and USB adaptor as optional setting for computer control . it need to add extra fees .
- > Vacuum pump : Generally molecular pump, diffusion pump, roots pump, mechanical pump can be chosen to meet various vacuum degree level requirements.
- > The furnace shell equipped gas intake valve, gas exhaust valve, and a vacuum port can through argon, nitrogen and other gases.



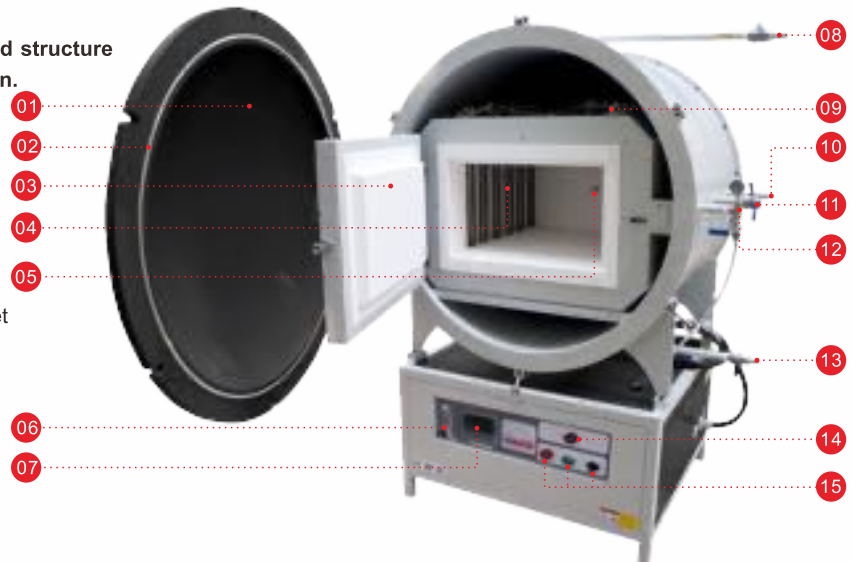
High Alumina Ceramic Fiber



Water Inlet Port with water circulating system

**Notice : 1400°C vacuum furnace with double shell round structure must equip water circulating system for normal operation.**

- |                                    |                         |
|------------------------------------|-------------------------|
| 01 Outer Steel Door                | 09 Alunina Belt         |
| 02 O-shape Sealing Rubber Ring     | 10 Gas Outlet           |
| 03 Inner Insulation Door           | 11 Vacuum Pump Inlet    |
| 04 SiC Rod Heater                  | 12 Gas Inlet            |
| 05 S-type Thermocouple             | 13 Cooling Water Outlet |
| 06 Gas Flow Meter                  | 14 Sound-light Alarm    |
| 07 Shimaden Temperature Controller | 15 Operating Buttons    |
| 08 Cooling Water inlet             |                         |



### Technical Parameters

Model	STZ-3-14	STZ-8-14	STZ-12-14	STZ-18-14	STZ-36-14	STZ-45-14	OEM
Inner Dimmension (WxDxH)mm	150x150x150	200x300x120	200x300x200	250x300x250	300x400x300	300x500x300	Any size
Type	Stand Type						
Furnace structure	Alumina Ceramic Chamber, Temperature control system, Heating element, Round Furnace shell ,Main Electric Parts and other relative accessories						
Max temperature	1400°C						
Continue Temp.	1350°C						
Power Supply	220V/2KW	220V/5KW	220V/5KW	220V/6KW	380V/12KW	380V/14KW	
Heating Element	High quality Silicon Carbide Rod ( SIC) heater						
Vacuum Degree	It will reached according to different vacuum pump system equipped and your budget & real requirement						
Chamber Material	High temperature polycrystal alumina ceramic fiber plate						
Temp Precision	±1°C						
Thermocouple	S type						
Temp controller	SHIMADEN (Japan) brand intelligent microcomputer PID controller can program 4 groups 32 segments						
Electronic Parts	SCHNEIDER (France ) electronics brand						
Heating rate	≤ 40°C/min ( suggest 15-20°C/min for longer life using of furnace )						
Safety protection	Overheat and Thermocouple-break Alarm						
Certification	ISO9001 /CE/ SGS						
Furnace shell	High quality cold-rolled round steel sheets CNC processing with good sealing effect						
Insulation	High quality thermal insulation material to ensure a good uniformity						
Accessories	One pair of high temperature gloves, One pair of crucible tong, one catalog and operation manual						
Optional	Paperless recorder, Gas supply system, Vacuum system, Digital vacuum gauge						

# STZ-36-17

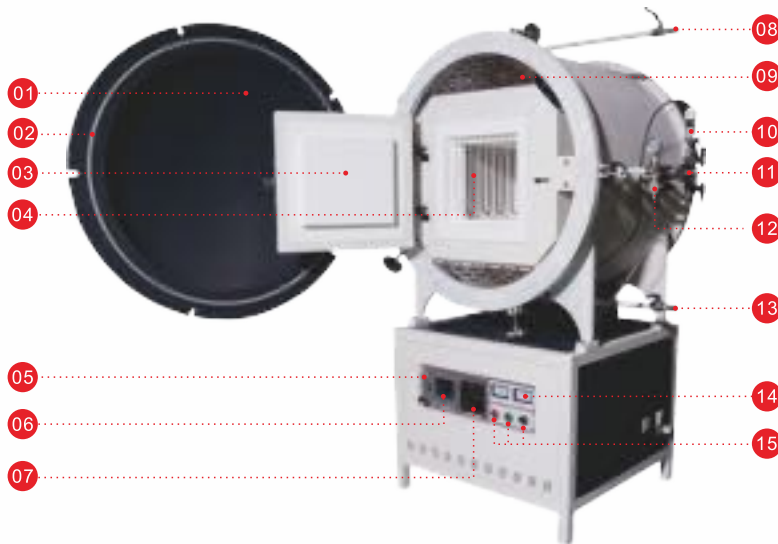
## 1700°C Vacuum Chamber Furnace

### Main Features

- > Integrated stand Structure with vacuum system and gas supply system.
  - > Chamber Materials: Vacuum forming ceramic fiber with good temperature insulating effect and energy-saving.
  - > YUDIAN brand Microprocessor PID controller or any other brand as option.
  - > Vacuum pump : Generally molecular pump, diffusion pump, roots pump, mechanical pump can be chosen to meet various vacuum degree level.
  - > The furnace shell equipped gas intake valve, gas exhaust valve, and a vacuum port can through argon, nitrogen and other gases.
- 1700°C furnace installed the high quality transformer with high voltage and low current.

### Notice :

- > 1700°C vacuum furnace with double shell round structure must equip water circulating system for normal operation.
- > 1700°C furnace with MoSi2 rod heaters ,it should be use with low heat speed for long life because its special features.



Alumina Crucibles



Vacuum Pump (Optional)

- 01 Outer Steel Door
- 02 O-shape Sealing Rubber Ring
- 03 Inner Insulation Door
- 04 MoSi2 Rod Heater
- 05 Gas Flow Meter
- 06 PID Temperature Controller
- 07 Vacuum Gauge Panel
- 08 Cooling Water Inlet
- 09 Safty SS304 Board
- 10 Digital Vacuum Gauge
- 11 Vacuum Pump Inlet
- 12 Vacuum Tube
- 13 Cooling Water Outlet
- 14 Amp&Voltmeter
- 15 Operating Buttons

### Technical Parameters

Model	STZ-3-17	STZ-8-17	STZ-12-17	STZ-20-17	STZ-36-17	OEM
Inner Dimmension (WxDxH)mm	150x150x150	200x300x120	200x300x200	250x320x250	300x400x300	Any size
Type	Stand Type					
Furnace structure	Alumina Ceramic Chamber, Temperature control system, Heating element, Round Furnace shell ,Main Electric Parts and other relative accessories					
Max temperature	1700°C					
Continue Temp.	1600°C					
Power Supply	220V/4KW	220V/5KW	220V/6KW	380V/7KW	380V/13KW	
Heating Element	High quality Molybdenum Disilicide ( MoSi2) heater					
Vacuum Degree	It will reached according to different vacuum pump system equipped and your budget & real requirement					
Chamber Material	High temperature polycrystal alumina ceramic fiber plate					
Temp Precision	±1°C					
Thermocouple	B type					
Temp controller	YUDIAN brand 518P Microprocessor PID controller as standard or any other brand as option					
Electronic Parts	SCHNEIDER (France ) electronics brand					
Heating rate	≤ 15°C/min ( suggest 6-8°C/min for longer life using of furnace )					
Safety protection	Overheat and Thermocouple-break Alarm					
Certification	ISO9001 /CE/ SGS					
Furnace shell	High quality cold-rolled round steel sheets CNC processing with good sealing effect					
Insulation	High quality thermal insulation material to ensure a good uniformity					
Accessories	One pair of high temperature gloves, One pair of crucible tong, one catalog and operation manual					
Optional	Paperless recorder, Gas supply system, Vacuum system, Digital vacuum gauge					



# Spare parts display >>



Alumina Crucibles & Boats



Alumina Tray



Quartz Boat



Alumina Tube



Quartz Tube



Crucible Tong



Gas Float Meter



High Temperature Gloves



Vacuum Flanges



MoSi2 Rod Heaters



SiC Rod heater



Temperature Controller



Paperless Recorder



Rotary Vacuum Pump



Molecular Pump



Water Chiller