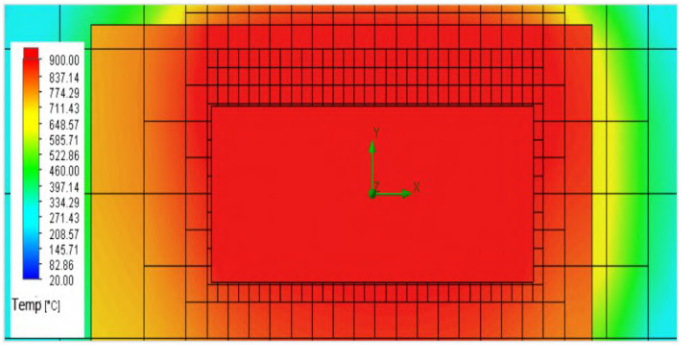
STM-8-12

1200°C Chamber Muffle Furnace

Main Features

>Integrated Structure with elegant design.
>Chamber Materials: Vacuum forming ceramic fiber, which has the advantage of no powder drops off with high temperature, and saving energy more than 50%.
>SHIMADEN (Japan) Microprocessor based self-tuning PID control provides optimum thermal.
>Long life type N thermocouple.
>CE compliant.
>Built-in RS485 port and USB adaptor as optional setting for computer control, it needs to add extra fees.



Heat Distribution Profile Diagram

01 Ceramic Insulation Door
02 HRE Resistance Wire
03 Shimaden Temperature Controller
04 N Type Thermocouple
05 SS304 Safty Buckle
06 Sound -light Alarm
07 Schneider Air Switch
08 Operating Buttons

Technical Parameters

Model	STM-1-10	STM-3-12	STM-6-12	STM-8-12	STM-12-12	STM-18-12	STM-30-12	OEM
Inner Dimension (WxDxH)mm	100x100x100	150x150x150	180x230x150	200x300x120	200x300x200	250x300x250	300x500x200	Any size
Outer Dimension (WxDxH)mm	250x240x350	430x465x620	460x570x660	480x630x630	480x630x710	550x635x780	600x870x735	
Type	Benchtop							
Furnace Structure	Alumina Ceramic Chamber, Temperature control system, Heating element, Furnace shell ,Main Electric Parts and other relative accessories							
Max Temperature	1000℃	1200℃						
Continue Temp	950℃	1100℃						
Power Supply	220V/1.2KW	220V/2.5KW	220V/3KW	220V/3KW	220V/4KW	220V/6KW	380V/7.5KW	
Heating Element	High quality alloy resistance wire (HRE)							
Chamber Material	High temperature polycrystal alumina ceramic fiber plate							
Temp Precision	±1℃							
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	≤ 25℃/min (suggest 15-20℃/min for longer life using of furnace)							
Safety Potection	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 crucible tongs, one catalog and operation manual							
Optional	Paperless recorder, Stainless steel exhaust chimney, Quartz /Alumina crucible							

STM-8-14

1400°C Chamber Muffle Furnace

Main Features

>Integrated Structure with elegant design.
>Chamber Materials: Vacuum forming ceramic fiber with advantage of no powder drops off in high temperature and energy saving.
>Heater: It uses high grade SIC (Silicon Carbide Heaters) heating element.
>SHIMADEN (Japan) Microprocessor based self-tuning PID control provides optimum thermal.
>Long life type S thermocouple.
>CE compliant.
>Built-in RS485 port and USB adaptor as optional setting for computer control, it need to add extra fees.

SIC Heating Element

Furnace Inner Picture

01 Ventilation Holes
02 S-Type Thermocouple
03 Ceramic Insulation Door
04 SS304 Alloy Hinge
05 Shimaden Temperature Controller
06 Dual-wall Housing
07 Ceramic Insulation Lining
08 SS304 Safty Buckle
09 SiC Rod Heater
10 Sound-light Alarm
11 Schneider Air Switch
12 Operating Buttons

Technical Parameters

Model	STM-3-14	STM-8-14	STM-12-14	STM-18-14	STM-27-14	STM-36-14	OEM
Inner Dimension (WxDxH)mm	150x150x150	200x200x200	200x300x200	250x300x250	300×300×300	300×400×300	Any size
Outer Dimension (WxDxH)mm	490x530x750	575×610×825	590x680x835	610x700x860	650×670×900	660×800×910	
Type	Benchtop						
Furnace Structure	Alumina Ceramic Chamber, Temperature control system, Heating element, Furnace shell ,Main Electric Parts and other relative accessories						
Max Temperature	1400℃						
Continue Temp.	1300℃						
Power Supply	220V/3KW	220V/5KW	220V/5KW	220V/6KW	380V/9KW	380V/12KW	
Heating Element	High quality Silicon Carbide Rod (SIC) heater						
Chamber Material	High temperature 1500 Type polycrystal alumina ceramic fiber material						
Temp Precision	±1℃						
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	≤ 25℃/min (suggest 15℃/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 crucible tongs, one catalog and operation manual						
Optional	Paperless recorder, Stainless steel exhaust chimney, Quartz /Alumina crucible						

STM-12-17

1700°C Chamber Muffle Furnace

Main Features

>Integrated Structure with elegant design.
>Chamber Materials: Vacuum forming ceramic fiber with advantage of no powder drops off in high temperature and energy saving .
>Heater: It use high grade MoSi2 (Molybdenum Disilicide Heaters) heating element.
>YUDIAN brand Microprocessor PID controller or any other brand as option.
>Long life type B thermocouple.
>CE compliant.
>Built-in RS485 port and USB adaptor as optional setting for computer control,it need to add extra fees.

MoSi2 Rod Heater

Furnace inner picture

01 Ventilation Holes
02 Dual-wall Housing
03 Ceramic Insulation Door
04 Zinc Alloy Hinges
05 Temperature Controller
06 Ceramic Fiber Lining
07 SS304 Safty Buckle
08 MoSi2 Rod Heater
09 Amp&Volt Meters
10 Schneider Air Switch
11 Operating Buttons

Technical Parameters

Model	STM-1-17	STM-3-17	STM-8-17	STM-12-17	STM-20-17	STM-36-17	OEM
Inner Dimension (WxDxH)mm	100x120x100	150x150x150	200x200x200	200x300x200	250×320×250	300x400x300	Any size
Outer Dimension (WxDxH)mm	383x432x660	510x560x870	600x620x920	600x693x920	610×730×970	1040x840x1250	
Type	Benchtop						
Furnace Structure	Alumina Ceramic Chamber, Temperature control system, Heating element, Furnace shell ,Main Electric Parts and other relative accessories						
Max Temperature	1700˚C						
Continue Temp.	1600˚C						
Power Supply	220V/2KW	220V/4KW	220V/5KW	220V/6KW	380V/7KW	380V/13KW	
Heating Element	High quality Molybdenum Disilicide (MoSi2) heater						
Chamber Material	High temperature 1800 Grade polycrystal alumina ceramic fiber material						
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) main electronic parts /High quality electric transformer						
Heating Rate	≤ 15˚C/min (suggest 10˚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 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 crucible tongs, one catalog and operation manual						
Optional	Paperless recorder, Stainless steel exhaust chimney, Quartz /Alumina crucible						