



KINTEK SOLUTION

## Atmosphere Furnace Catalog

Contact us for more catalogs of [Sample Preparation](#), [Thermal Equipment](#), [Lab Consumables & Materials](#), [Bio-Chem Equipment](#), etc...

# KINTEK SOLUTION

## COMPANY PROFILE

### >>> About Us

Kintek Solution Ltd is one technology orientated organization, team members are devoted to probing the most efficient and reliable technology and innovations in the scientific researching equipment, fields like biochemical reacting, new materials researching, heat treatment, vacuum creating, refrigerating, as well as pharmaceutical and petroleum extracting equipment.

In the past 20 years, we earned rich experiences in this researching equipment field, we are capable to supply both the equipment and solution according to customer's needs and realities, we have also developed lots of customer tailored equipment according to a specific working purpose, and we have lots of successful projects in many universities and institutes from different countries, like Asia, Europe, North and South America, Australia and New Zealand, Middle East, and Africa.

Profession, quick response, hard working, and sincerity is a remarkable label of our team members working attitude, which earn us a sound reputation among our clients.

We are here and ready to service our clients from different countries and regions, and share the most efficient and reliable technology together!



# 1200°C Controlled Atmosphere Furnace

Item Number: KT-12A



## Introduction

Discover our KT-12A Pro Controlled atmosphere furnace - high precision, heavy duty vacuum chamber, versatile smart touch screen controller, and excellent temperature uniformity up to 1200C. Ideal for both laboratory and industrial application.

[Learn More](#)

Furnace model	KT-12A
Max. temperature	1200°C
Constant work temperature	1100°C
Vacuum pressure	0.1Mpa
Vacuum valve	Needle valve
Furnace tube material	High purity quartz
Chamber material	Japan alumina fiber
Heating element	Cr2Al2Mo2 wire coil
Heating rate	0-30°C/min
Temperature sensor	Build in K type thermal couple
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1°C
Temperature uniformity	±5°C
Electric power supply	AC110-220V,50/60HZ

Standard Chamber Sizes Stocks			
Chamber size (mm)	Effective volume (L)	Chamber size (mm)	Effective volume (L)
100x100x100	1	300x300x400	36
150x150x150	3.4	400x400x400	64
150x150x200	4.5	500x500x500	125
200x200x200	8	600x600x600	216
200x200x300	12	800x800x800	512

Customer design sizes and volume is accepted

No.	Description	Quantity
1	Furnace	1
2	Thermal block	1
3	Crucible tong	1

4	Heat resistant glove	1
5	Operation manual	1

# 1400°C Controlled Atmosphere Furnace

Item Number: KT-14A



## Introduction

Achieve precise heat treatment with KT-14A controlled atmosphere furnace. Vacuum sealed with a smart controller, it's ideal for lab and industrial use up to 1400°C.

[Learn More](#)

Furnace model	KT-14A
Max. temperature	1400°C
Constant work temperature	1300°C
Vacuum pressure	0.1Mpa
Vacuum valve	Needle valve
Chamber material	Japan alumina fiber
Heating element	Silicon Carbide
Heating rate	0-20°C/min
Temperature sensor	S type thermal couple
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1°C
Temperature uniformity	±5°C
Electric power supply	AC110-220V,50/60HZ

### Standard Chamber Sizes Stocks

Chamber size (mm)	Effective volume (L)	Chamber size (mm)	Effective volume (L)
100x100x100	1	300x300x400	36
150x150x150	3.4	400x400x400	64
150x150x200	4.5	500x500x500	125
200x200x200	8	600x600x600	216
200x200x300	12	800x800x800	512

Customer design sizes and volume is accepted

No.	Description	Quantity
1	Furnace	1
2	Thermal block	1
3	Crucible tong	1
4	Heat resistant glove	1



# 1700°C Controlled Atmosphere Furnace

Item Number: KT-17A



## Introduction

KT-17A Controlled atmosphere furnace: 1700°C heating, vacuum sealing technology, PID temperature control, and versatile TFT smart touch screen controller for laboratory and industrial use.

[Learn More](#)

Furnace model	KT-17A
Max. temperature	1700°C
Constant work temperature	1600°C
Vacuum pressure	0.1Mpa
Vacuum valve	Needle valve
Chamber material	Japan alumina fiber
Heating element	Molybdenum Disilicide
Heating rate	0-20°C/min
Temperature sensor	B type thermal couple
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1°C
Temperature uniformity	±5°C
Electric power supply	AC110-220V,50/60HZ

### Standard Chamber Sizes Stocks

Chamber size (mm)	Effective volume (L)	Chamber size (mm)	Effective volume (L)
100x100x100	1	300x300x400	36
120x120x130	2	400x400x400	64
150x150x200	4.5	500x500x500	125
200x200x200	8	600x600x600	216
200x200x300	12	800x800x800	512

Customer design sizes and volume is accepted

No.	Description	Quantity
1	Furnace	1
2	Thermal block	1
3	Crucible tong	1
4	Heat resistant glove	1





# Hydrogen Atmosphere Furnace

Item Number: KT-16AH



## Introduction

KT-AH Hydrogen atmosphere furnace - induction gas furnace for sintering/annealing with built-in safety features, dual housing design, and energy-saving efficiency. Ideal for lab and industrial use.

[Learn More](#)

Furnace model	KT-16AH
Max. temperature	1600°C
Constant work temperature	1500°C
Vacuum pressure	0.1Mpa
Vacuum valve	Needle valve
Chamber material	Japan alumina fiber
Heating element	Molybdenum wire
Heating rate	0-20°C/min
Temperature sensor	B type thermal couple
Temperature controller	Touch screen PID controller
Temperature control accuracy	±1°C
Temperature uniformity	±5°C
Electric power supply	AC110-220V,50/60HZ

### Standard Chamber Sizes Stocks

Chamber size (mm)	Effective volume (L)	Chamber size (mm)	Effective volume (L)
150x150x200	4.5	300x300x400	36
200x200x300	12	400x400x400	64

Customer design sizes and volume is accepted

Standard Temperature controlling	<ul style="list-style-type: none"> <li>• PID automatic control via SCR (Silicon Controlled Rectifier) power control with phase angle fired, current limiting resistor.</li> <li>• 51 programmable segments for precise control of heating rate, cooling rate and dwell time.</li> <li>• Built in PID Auto-Tune function with overheating &amp; broken Thermocouple broken protection.</li> <li>• Over temperature protection and alarm allows for operation without attendant</li> </ul>
Optional of Temperature controlling	<ul style="list-style-type: none"> <li>• Software (Furnace can be operated by PC by installing a control software)</li> <li>• Touch screen temperature controller</li> </ul>
Furnace structure	Double layer steel casing with dual cooling fan, surface temperature below 60°C

Furnace door

- Power cutting off when furnace door open

Warranty

- For this hydrogen furnace, One year limited warranty with life time support. (Consumable parts such as heating elements and crucibles are not covered by the warranty, please order the replacement at related products)
- ATTENTION: Any damages caused by the use of corrosive and acidic gases are not under the coverage of One Year Limited Warranty.

Hydrogen Furnace  
Using Attentions

- Cooling rate shall also not exceed 10°C/min.
- Toxic or explosive gases are not recommended for use with this furnace without necessary safety controls and supervision.
- Small cracks may appear on the surface of the refractory ceramics over extended use. This is a normal occurrence and the cracks may be repaired with alumina coating.
- Refractory door block must be inserted before closing door.

# Mesh Belt Controlled Atmosphere Furnace

Item Number: KT-MB



## Introduction

Discover our KT-MB mesh belt sintering furnace - perfect for high-temperature sintering of electronic components & glass insulators. Available for open air or controlled atmosphere environments.

[Learn More](#)

Model	KT-MB20	KT-MB30	KT-MB35	KT-MB60	KT-MB65
Working temperature	RT-1000°C				
Control accuracy	±1°C				
Heating element	FEC heater				
Mesh belt width	200mm	300mm	350mm	600mm	650mm
Effective height	50mm	60mm	80mm	80mm	80mm
Hot zone quantity	7	7	8	9	12
Overall length	7200mm	7200mm	7200mm	7650mm	13380mm
Customer design sizes and requirement is accepted					



## Kintek Solution

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