KINTEK FURNACE

Atmosphere Furnace Catalog

Contact us for more catalogs of High Temperature Furnaces, etc.

KINTEK FURNACE

COMPANY PROFILE

>>> About Us

Kintek Furnace is a technology-driven innovator specializing in precision high-temperature laboratory equipment, including muffle furnaces, tube furnaces, vacuum furnaces, atmosphere-controlled systems, and advanced CVD/PECVD solutions. Designed for materials science, chemical research, and thermal processing applications, our robust, energy-efficient systems prioritize precision, safety, and repeatability in extreme heat environments, empowering researchers and industrial labs to achieve groundbreaking results.

Mesh Belt Controlled Atmosphere Furnace Inert Nitrogen Atmosphere Furnace

Item Number: KT-MB

Introduction

KINTEK Mesh Belt Furnace: High-performance controlled atmosphere furnace for sintering, hardening & heat treatment. Customizable, energy-efficient, precise temperature control. Get a quote now!

Learn More

Model	KT-MB20	KT-MB30	KT-MB35	KT-MB60	KT-MB65
Working temperature	RT-1000℃				
Control accuracy	±1℃				
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					

1200°C Controlled Inert Nitrogen Atmosphere Furnace

Item Number: KT-12A

Introduction

KINTEK 1200℃ Controlled Atmosphere Furnace: Precision heating with gas control for labs. Ideal for sintering, annealing, and material research. Customizable sizes available.

Learn More

Furnace model	KT-12A / KT-12A Pro
Max. temperature	1200℃
Constant work temperature	1100℃
Vacuum pressure	0.1Mpa
Vacuum valve	Needle valve
Furnace tube material (if applicable, typically for tube furnaces)	High purity quartz (Note: This is a muffle furnace, chamber material is key)
Chamber material	Japan alumina fiber
Heating element	Cr2Al2Mo2 wire coil
Heating rate	0-30℃/min
Temperature sensor	Build in K type thermal couple
Temperature controller	Digital PID controller / Touch screen PID controller (KT-12A Pro)
Temperature control accuracy	±1℃
Temperature uniformity	±5℃
Electric power supply	AC110-220V, 50/60HZ (customizable)

Standard Chamber Sizes (Customization Available)			
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 accepted. Contact us to discuss your specific requirements.

No.	Description	Quantity
1	Furnace	1
2	Thermal block(s) / Sample tray(s)	1 set
3	Crucible tong	1

4	Heat resistant glove	1 pair
5	Operation manual	1

1400°C Controlled Inert Nitrogen Atmosphere Furnace

Item Number: KT-14A

Introduction

KT-14A Controlled Atmosphere Furnace for labs & industry. 1400°C max temp, vacuum sealing, inert gas control. Customizable solutions available.

Learn More

Furnace model	KT-14A
Max. temperature	1400℃
Constant work temperature	1300℃
Vacuum pressure	-0.1Mpa (relative to atmosphere)
Vacuum valve	Needle valve
Chamber material	Japan alumina fiber
Heating element	Silicon Carbide (SiC)
Heating rate	0-20℃/min (adjustable)
Temperature sensor	S-type thermocouple
Temperature controller	Digital PID controller / Optional Touch screen PID controller
Temperature control accuracy	±1℃
Temperature uniformity	±5℃ (in defined uniform zone)
Electric power supply	AC110-220V, 50/60HZ (configurable)

Standard Chamber Sizes (Custom sizes available)			
Chamber size (WxDxH mm)	**Effective volume (L)**	**Chamber size (WxDxH 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
Custom designed sizes and volumes are accepted. Contact us with your specific dimensional requirements.			

No.	**Description**	**Quantity**
1	Controlled Atmosphere Furnace (KT-14A)	1 unit
2	Thermal block(s) / Hearth plate	1 set
3	Crucible tong	1 piece
4	Heat resistant gloves	1 pair

5	Operation manual	1 copy

1700°C Controlled Inert Nitrogen Atmosphere Furnace

Item Number: KT-17A

Introduction

KT-17A Controlled Atmosphere Furnace: Precise 1700°C heating with vacuum & gas control. Ideal for sintering, research & material processing. Explore now!

Learn More

Furnace model	KT-17A
Max. temperature	1700℃
Constant work temperature	1600℃
Vacuum pressure	-0.1Mpa
Vacuum valve	Needle valve
Chamber material	Japan alumina fiber
Heating element	Molybdenum Disilicide
Heating rate	0-20℃/min
Temperature sensor	B type thermal couple
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1℃
Temperature uniformity	±5℃
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

Controlled Inert Nitrogen Hydrogen Atmosphere Furnace

Item Number: KT-16AH

Introduction

Discover KINTEK's Hydrogen Atmosphere Furnace for precise sintering & annealing in controlled environments. Up to 1600°C, safety features, customizable.

Learn More

Furnace model	KT-16AH
Max. temperature	1600℃
Constant work temperature	1500℃
Vacuum pressure	0.1Mpa
Vacuum valve	Needle valve
Chamber material	Japan alumina fiber
Heating element	Molybdenum wire
Heating rate	0-20℃/min
Temperature sensor	B type thermal couple
Temperature controller	Touch screen PID controller
Temperature control accuracy	±1℃
Temperature uniformity	±5℃
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	• PID automatic control via SCR (Silicon Controlled Rectifier) power control with phase angle fired, current limiting resistor. • 51 programmable segments for precise control of heating rate, cooling rate and dwell time. • Built in PID Auto-Tune function with overheating & broken Thermocouple broken protection. • Over temperature protection and alarm allows for operation without attendant
Optional of Temperature controlling	• Software (Furnace can be operated by PC by installing a control software) • Touch screen temperature controller
Furnace structure	Double layer steel casing with dual cooling fan, surface temperature below 60℃

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℃/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.

Kintek Furnace

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