



KINTEK SOLUTION

## Tube 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 Split Tube Furnace With Quartz Tube

Item Number: KT-TF12



## Introduction

KT-TF12 split tube furnace: high-purity insulation, embedded heating wire coils, and max. 1200C. Widely used for new materials and chemical vapour deposition.

[Learn More](#)

Furnace model	KT-TF12
Max. temperature	1200°C
Constant work temperature	1100°C
Furnace tube material	High purity quartz
Furnace tube diameter	30 / 40 / 60 / 80 / 100 / 120 /150 / 230 mm
Heating zone length	300 / 450 / 600 / 800 mm
Vacuum sealing solution	SS 304 flange with O ring
Rated vacuum pressure	0.001Pa/10E5 torr
Rated positive pressure	0.02Mpa/150 torr
Chamber material	Japan alumina fiber
Heating element	Cr2Al2Mo2 wire coil
Heating rate	0-20°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

Other quartz size and heating zone length can be customized

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Operation manual	1



# 1400°C Tube Furnace With Alumina Tube

Item Number: KT-TF14



## Introduction

Looking for a tube furnace for high-temperature applications? Our 1400°C Tube Furnace with Alumina Tube is perfect for research and industrial use.

[Learn More](#)

Furnace model	KT-TF14	KT-TF14 Pro
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1400°C	
Constant work temperature	1300°C	
Furnace tube material	High grade Al2O3 alumina	
Furnace tube diameter	30 / 40 / 60 / 80 / 100 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Heating zone quantity	1-10 zones	
Vacuum sealing solution	SS 304 flange with O ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Rated positive pressure	0.02Mpa/150 torr	
Chamber material	Japan Al2O3 alumina fiberr	
Heating element	Cr2Al2Mo2 wire coil	
Heating rate	0-10°C/min	
Temperature sensor	S type thermal couple	
Temperature control accuracy	±1°C	
Temperature uniformity	±5°C	
Electric power supply	AC110-220V,50/60HZ	

Other Al2O3 alumina tube size and heating zone length can be customized

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2
4	Tube thermal block	2

Furnace model	KT-TF14	KT-TF14 Pro
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Operation manual	1

# 1700°C Tube Furnace With Alumina Tube

Item Number: KT-TF17



## Introduction

Looking for a high-temperature tube furnace? Check out our 1700°C Tube Furnace with Alumina Tube. Perfect for research and industrial applications up to 1700C.

[Learn More](#)

Furnace model	KT-TF17	KT-TF17 Pro
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1700°C	
Constant work temperature	1650°C	
Furnace tube material	High grade Al <sub>2</sub> O <sub>3</sub> alumina	
Furnace tube diameter	30 / 40 / 60 / 80 / 100 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Heating zone quantity	1-10 zones	
Vacuum sealing solution	SS 304 flange with O ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Rated positive pressure	0.02Mpa/150 torr	
Chamber material	Japan Al <sub>2</sub> O <sub>3</sub> alumina fiber	
Heating element	Cr <sub>2</sub> Al <sub>2</sub> Mo <sub>2</sub> wire coil	
Heating rate	0-10°C/min	
Temperature sensor	B type Thermal couple	
Temperature control accuracy		±1°C
Temperature uniformity		±5°C
Electric power supply	AC110-220V,50/60HZ	
Other Al <sub>2</sub> O <sub>3</sub> alumina tube size and heating zone length can be customized		

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2

4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Operation manual	1



# Multi Zone Tube Furnace

Item Number: KT-MTF



## Introduction

Experience precise, efficient thermal testing with our Multi Zone Tube Furnace. Independent heating zones and temperature sensors allow for controlled high-temperature gradient heating fields. Order now for advanced thermal analysis!

[Learn More](#)

Furnace model	KT-MTF	KT-MTF Pro
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1700°C	
Constant work temperature	1650°C	
Furnace tube material	High grade Quartz/ Al2O3 alumina	
Furnace tube diameter	30 / 40 / 60 / 80 / 100 / 150 / 230 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Heating zone quantity	1-10 zones	
Vacuum sealing solution	SS 304 flange with O ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Rated positive pressure	0.02Mpa/150 torr	
Chamber material	Japan Al2O3 alumina fiber	
Heating element	Cr2Al2Mo2 wire coil	
Thermal couple	K /S/B type	
Temperature control accuracy	±1°C	
Temperature uniformity	±5°C	
Electric power supply	AC110-220V,50/60HZ	

Other Al2O3 alumina tube size and heating zone length can be customized

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1

6	Heat resistant glove	1
7	Operation manual	1

# High Pressure Tube Furnace

Item Number: KT-PTF



## Introduction

KT-PTF High Pressure Tube Furnace: Compact split tube furnace with strong positive pressure resistance. Working temp up to 1100°C and pressure up to 15Mpa. Also works under controller atmosphere or high vacuum.

[Learn More](#)

Furnace model	KT-PTF	KT-PTF Pro
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1100°C	
Constant work temperature	1000°C	
Furnace tube material	Super nickel based alloy	
Furnace tube diameter	50 / 60 / 80 / 100 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Heating zone quantity	1-10 zones	
Vacuum sealing solution	SS 304 flange with solid copper seal ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Rated positive pressure	15 Mpa	
Chamber material	Japan Al2O3 alumina fiber	
Heating element	Cr2Al2Mo2 wire coil	
Temperature sensor	Build in K type Thermal couple	
Temperature control accuracy	±1°C	
Temperature uniformity	±5°C	
Electric power supply	AC110-220V,50/60HZ	

Other super nickel based alloy tube size and heating zone length can be customized

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1

6	Heat resistant glove	1
7	Operation manual	1

# Rtp Heating Tube Furnace

Item Number: KT-RTP



## Introduction

Get lightning-fast heating with our RTP Rapid Heating Tube Furnace. Designed for precise, high-speed heating and cooling with convenient sliding rail and TFT touch screen controller. Order now for ideal thermal processing!

[Learn More](#)

Furnace model	KT-RTP	KT-RTP Pro
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1100°C	
Constant work temperature	1000°C	
Furnace tube material	High grade Quartz/ Al2O3 alumina	
Furnace tube diameter	50 / 60 / 80 / 100 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Vacuum sealing solution	SS 304 flange with solid copper seal ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Chamber material	Japan Al2O3 alumina fiber	
Heating element	Cr2Al2Mo2 wire coil	
Temperature sensor	Build in K type Thermal couple	
Temperature control accuracy	±1°C	
Electric power supply	AC110-220V,50/60HZ	
Other furnace tube size and heating zone length can be customized		

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Operation manual	1

# Vertical Tube Furnace

Item Number: KT-VTF



## Introduction

Elevate your experiments with our Vertical Tube Furnace. Versatile design allows for operation under various environments and heat treatment applications. Order now for precise results!

[Learn More](#)

Furnace model	KT-VTF	KT-VTF PRO
Temperature controller	Digital PID controller	Touch screen PID controller
Multi program preset	no	yes
Power failure restarting	no	yes
Max. temperature	1800°C	
Furnace tube material	High grade Quartz/ Al2O3 alumina	
Furnace tube diameter	50 / 60 / 80 / 100 mm	
Heating zone length	300 / 450 / 600 / 800 mm	
Vacuum sealing solution	SS 304 flange with solid copper seal ring	
Rated vacuum pressure	0.001Pa/10E5 torr	
Chamber material	Japan Al2O3 alumina fiber	
Heating element	Cr2Al2Mo2 wire coil/SiC/MoSi2	
Thermal couple	K /S/B type	
Temperature control accuracy	±1°C	
Electric power supply	AC110-220V,50/60HZ	

Other furnace tube size and heating zone length can be customized

No.	Description	Quantity
1	Furnace	1
2	Alumina tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Operation manual	1

# Split Chamber Cvd Tube Furnace With Vacuum Station Cvd Machine

Item Number: KT-CTF12



## Introduction

Efficient split chamber CVD furnace with vacuum station for intuitive sample checking and quick cooling. Up to 1200°C max temperature with accurate MFC mass flowmeter control.

[Learn More](#)

Furnace model	KT-CTF12-60
Max. temperature	1200°C
Constant work temperature	1100°C
Furnace tube material	High purity quartz
Furnace tube diameter	60mm
Heating zone length	1x450mm
Chamber material	Japan alumina fiber
Heating element	Cr2Al2Mo2 wire coil
Heating rate	0-20°C/min
Thermal couple	Build in K type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1°C
Sliding distance	600mm
<b>Gas precise control unit</b>	
Flow meter	MFC mass flow meter
Gas channels	4 channels
Flow rate	MFC1: 0-5SCCM O2 MFC2: 0-20SCCMCH4 MFC3: 0- 100SCCM H2 MFC4: 0-500 SCCM N2
Linearity	±0.5% F.S.
Repeatability	±0.2% F.S.
Pipe line and valve	Stainless steel
Maximum Operating Pressure	0.45MPa
Flow meter controller	Digital Knob controller/Touch screen controller
<b>Standard vacuum unit (Optional)</b>	
Vacuum pump	Rotary vane vacuum pump

Pump flow rate	4L/S
Vacuum suction port	KF25
Vacuum gauge	Pirani/Resistance silicon vacuum gauge
Rated vacuum pressure	10Pa
<b>High vacuum unit(Optional)</b>	
Vacuum pump	Rotary vane pump+Molecular pump
Pump flow rate	4L/S+110L/S
Vacuum suction port	KF25
Vacuum gauge	Compound vacuum gauge
Rated vacuum pressure	6x10 <sup>-5</sup> Pa
Above specifications and setups can be customized	

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Precise gas control	1
8	Vacuum unit	1
9	Operation manual	1



# Multi Heating Zones Cvd Tube Furnace Cvd Machine

Item Number: KT-CTF14



## Introduction

KT-CTF14 Multi Heating Zones CVD Furnace - Precise Temperature Control and Gas Flow for Advanced Applications. Max temp up to 1200°C, 4 channels MFC mass flow meter, and 7" TFT touch screen controller.

[Learn More](#)

Furnace model	KT-CTF14-60
Max. temperature	1400°C
Constant work temperature	1300°C
Furnace tube material	High purity Al2O3 tube
Furnace tube diameter	60mm
Heating zone	2x450mm
Chamber material	Alumina polycrystalline fiber
Heating element	Silicon Carbide
Heating rate	0-10°C/min
Thermal couple	S type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1°C
<b>Gas precise control unit</b>	
Flow meter	MFC mass flow meter
Gas channels	4 channels
Flow rate	MFC1: 0-5SCCM O2 MFC2: 0-20SCMCH4 MFC3: 0- 100SCCM H2 MFC4: 0-500 SCCM N2
Linearity	±0.5% F.S.
Repeatability	±0.2% F.S.
Pipe line and valve	Stainless steel
Maximum Operating Pressure	0.45MPa
Flow meter controller	Digital Knob controller/Touch screen controller
<b>Standard vacuum unit(Optional)</b>	
Vacuum pump	Rotary vane vacuum pump
Pump flow rate	4L/S
Vacuum suction port	KF25

Vacuum gauge	Pirani/Resistance silicon vacuum gauge
Rated vacuum pressure	10Pa
High vacuum unit(Optional)	
Vacuum pump	Rotary vane pump+Molecular pump
Pump flow rate	4L/S+110L/S
Vacuum suction port	KF25
Vacuum gauge	Compound vacuum gauge
Rated vacuum pressure	6x10-5Pa

Above specifications and setups can be customized

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Precise gas control	1
8	Vacuum unit	1
9	Operation manual	1

# Customer Made Versatile Cvd Tube Furnace Cvd Machine

Item Number: KT-CTF16



## Introduction

Get your exclusive CVD furnace with KT-CTF16 Customer Made Versatile Furnace. Customizable sliding, rotating, and tilting functions for precise reactions. Order now!

[Learn More](#)

Furnace model	KT-CTF16-60
Max. temperature	1600°C
Constant work temperature	1550°C
Furnace tube material	High purity Al2O3 tube
Furnace tube diameter	60mm
Heating zone	3x300mm
Chamber material	Alumina polycrystalline fiber
Heating element	Silicon Carbide
Heating rate	0-10°C/min
Thermal couple	S type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1°C
Gas precise control unit	
Flow meter	MFC mass flow meter
Gas channels	3 channels
Flow rate	MFC1: 0-5SCCM O2 MFC2: 0-20SCMCH4 MFC3: 0- 100SCCM H2 MFC4: 0-500 SCCM N2
Linearity	±0.5% F.S.
Repeatability	±0.2% F.S.
Pipe line and valve	Stainless steel
Maximum Operating Pressure	0.45MPa
Flow meter controller	Digital Knob controller/Touch screen controller
Standard vacuum unit(Optional)	
Vacuum pump	Rotary vane vacuum pump
Pump flow rate	4L/S
Vacuum suction port	KF25

Vacuum gauge	Pirani/Resistance silicon vacuum gauge
Rated vacuum pressure	10Pa
High vacuum unit(Optional)	
Vacuum pump	Rotary vane pump+Molecular pump
Pump flow rate	4L/S+110L/S
Vacuum suction port	KF25
Vacuum gauge	Compound vacuum gauge
Rated vacuum pressure	6x10-5Pa

Above specifications and setups can be customized

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Precise gas control	1
8	Vacuum unit	1
9	Operation manual	1

# Slide Pecvd Tube Furnace With Liquid Gasifier Pecvd Machine

Item Number: KT-PE12



## Introduction

KT-PE12 Slide PECVD System: Wide power range, programmable temp control, fast heating/cooling with sliding system, MFC mass flow control & vacuum pump.

[Learn More](#)

Furnace model	KT-PE12-60
Max. temperature	1200°C
Constant work temperature	1100°C
Furnace tube material	High purity quartz
Furnace tube diameter	60mm
Heating zone length	1x450mm
Chamber material	Japan alumina fiber
Heating element	Cr2Al2Mo2 wire coil
Heating rate	0-20°C/min
Thermal couple	Build in K type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1°C
Sliding distance	600mm
RF Plasma unit	
Output Power	5 -500W adjustable with ± 1% stability
RF frequency	13.56 MHz ±0.005% stability
Reflection Power	350W max.
Matching	Automatic
Noise	<50 dB
Cooling	Air cooling.
Gas precise control unit	
Flow meter	MFC mass flow meter
Gas channels	4 channels
Flow rate	MFC1: 0-5SCCM O2 MFC2: 0-20SCMCH4 MFC3: 0- 100SCCM H2 MFC4: 0-500 SCCM N2
Linearity	±0.5% F.S.

Repeatability	±0.2% F.S.
Pipe line and valve	Stainless steel
Maximum Operating Pressure	0.45MPa
Flow meter controller	Digital Knob controller/Touch screen controller
Standard vacuum unit(Optional)	
Vacuum pump	Rotary vane vacuum pump
Pump flow rate	4L/S
Vacuum suction port	KF25
Vacuum gauge	Pirani/Resistance silicon vacuum gauge
Rated vacuum pressure	10Pa
High vacuum unit(Optional)	
Vacuum pump	Rotary vane pump+Molecular pump
Pump flow rate	4L/S+110L/S
Vacuum suction port	KF25
Vacuum gauge	Compound vacuum gauge
Rated vacuum pressure	6x10-5Pa

Above specifications and setups can be customized

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	RF plasma source	1
8	Precise gas control	1
9	Vacuum unit	1
10	Operation manual	1

# Inclined Rotary Plasma Enhanced Chemical Deposition (Pecvd) Tube Furnace Machine

Item Number: KT-PE16



## Introduction

Introducing our inclined rotary PECVD furnace for precise thin film deposition. Enjoy automatic matching source, PID programmable temperature control, and high accuracy MFC mass flowmeter control. Built-in safety features for peace of mind.

[Learn More](#)

Furnace model	PE-1600-60
Max. temperature	1600°C
Constant work temperature	1550°C
Furnace tube material	High purity Al <sub>2</sub> O <sub>3</sub> tube
Furnace tube diameter	60mm
Heating zone length	2x300mm
Chamber material	Japan alumina fiber
Heating element	Molybdenum Disilicide
Heating rate	0-10°C/min
Thermal couple	B type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1°C
RF Plasma unit	
Output Power	5 -500W adjustable with ± 1% stability
RF frequency	13.56 MHz ±0.005% stability
Reflection Power	350W max.
Matching	Automatic
Noise	<50 dB
Cooling	Air cooling.
Gas precise control unit	
Flow meter	MFC mass flow meter
Gas channels	4 channels
Flow rate	MFC1: 0-5SCCM O <sub>2</sub> MFC2: 0-20SCMCH <sub>4</sub> MFC3: 0- 100SCCM H <sub>2</sub> MFC4: 0-500 SCCM N <sub>2</sub>
Linearity	±0.5% F.S.

Repeatability	±0.2% F.S.
Pipe line and valve	Stainless steel
Maximum Operating Pressure	0.45MPa
Flow meter controller	Digital Knob controller/Touch screen controller
Standard vacuum unit(Optional)	
Vacuum pump	Rotary vane vacuum pump
Pump flow rate	4L/S
Vacuum suction port	KF25
Vacuum gauge	Pirani/Resistance silicon vacuum gauge
Rated vacuum pressure	10Pa
High vacuum unit(Optional)	
Vacuum pump	Rotary vane pump+Molecular pump
Pump flow rate	4L/S+110L/S
Vacuum suction port	KF25
Vacuum gauge	Compound vacuum gauge
Rated vacuum pressure	6x10-5Pa
Above specifications and setups can be customized	

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	RF plasma source	1
8	Precise gas control	1
9	Vacuum unit	1
10	Operation manual	1



# Laboratory Vacuum Tilt Rotary Tube Furnace

Item Number: KT-RTF



## Introduction

Discover the versatility of Laboratory Rotary Furnace: Ideal for calcination, drying, sintering, and high-temperature reactions. Adjustable rotating and tilting functions for optimal heating. Suitable for vacuum and controlled atmosphere environments. Learn more now!

[Learn More](#)

<p>1650*760*1720mm / Weight 300KG</p>	<ul style="list-style-type: none"> <li>• The furnace tube is made of 310S heat-resistant stainless steel.</li> <li>• PLC centralized control is adopted to simplify operation, and it is equipped with a 7-inch touch screen for real-time display of various data, which is intuitive and clear;</li> <li>• Equipped with an alarm function, which can realize unattended sintering;</li> <li>• It is equipped with a material level monitor to monitor the material condition, and is equipped with a vibrator to facilitate better introduction of materials.</li> <li>• High-purity Al<sub>2</sub>O<sub>3</sub> fiber refractory insulation material has excellent insulation effect and effectively reduces the power consumption of equipment;</li> <li>• Adopt advanced and stable dynamic sealing system to ensure that the equipment can be used in vacuum and atmosphere;</li> <li>• The furnace body can be tilted from -14° (discharging) to 2° (feeding), which is convenient for loading and unloading operations;</li> </ul>
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Stainless steel auger

<p>Control System</p>	<ul style="list-style-type: none"> <li>• Sintering process curve setting: dynamic display of setting curves, multiple process curves can be pre-stored for equipment sintering, and each process curve can be set freely;</li> <li>• Sintering can be scheduled to realize unattended sintering process curve sintering;</li> <li>• Display information such as sintering power and voltage in real time and record sintering data, and can be exported to realize paperless recording;</li> <li>• It can realize remote control and observe equipment status in real time;</li> <li>• Temperature correction: the difference between the main control temperature and the sample temperature, and the nonlinear correction is carried out throughout the sintering process.</li> </ul>
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Heating element

Mo doped Fe-Cr-Al alloy

<p>gasification outlet</p>	<p>Air outlet flaring design to avoid blockage</p>
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Precautions for equipment use

- When the furnace temperature of the equipment is  $\geq 300^{\circ}\text{C}$ , it is forbidden to open the furnace to avoid injury;
- When the equipment is in use, the reading of the absolute pressure gauge should not exceed 0.15MPa to prevent equipment damage caused by excessive pressure;
- When used under vacuum, the operating temperature of the equipment shall not exceed  $600^{\circ}\text{C}$ .

<p>Furnace model</p>	<p>KT-RTF12</p>	<p>KT-RTF14</p>	<p>KT-RTF16</p>
<p>Max. temperature</p>	<p>1200°C</p>	<p>1400°C</p>	<p>1600°C</p>
<p>Constant work temperature</p>	<p>1100°C</p>	<p>1300°C</p>	<p>1500°C</p>

Heating rate	0-20°C/min	0-10°C/min	
Furnace tube material	High purity quartz	Al <sub>2</sub> O <sub>3</sub> /Si <sub>3</sub> N <sub>4</sub>	
Rotary speed	0-20rpm		
Tilting angle	-5-30 degree		
Furnace tube diameter	30 / 40 / 60 / 80 / 100 / 120 / 150 / 230 / 280 mm		
Single heating zone length	300 / 450 / 600 / 800 mm		
Vacuum sealing solution	SS 304 flange with O ring		
Chamber material	Japan alumina fiber		
Heating element	Cr <sub>2</sub> Al <sub>2</sub> Mo <sub>2</sub> wire coil	SiC	MoSi <sub>2</sub>
Temperature sensor	K type	S type	B type
Temperature controller	Digital PID controller/Touch screen PID controller		
Temperature control accuracy	±1°C		
Electric power supply	AC110-220V,50/60HZ		
Different tube material and size and heating zone length can be customized			

# Split Multi Heating Zone Rotary Tube Furnace

Item Number: KT-MRTF



## Introduction

Multi zone rotary furnace for high-precision temperature control with 2-8 independent heating zones. Ideal for lithium ion battery electrode materials and high-temperature reactions. Can work under vacuum and controlled atmosphere.

[Learn More](#)

Furnace model	KT-MRTF12	KT-MRTF14	KT-MRTF16
Max. temperature	1200°C	1400°C	1600°C
Constant work temperature	1100°C	1300°C	1500°C
Heating rate	0-20°C/min	0-10°C/min	
Furnace tube material	Quartz/Metal alloys	Al2O3/Si3N4	
Rotary speed	0-20rpm		
Tilting angle	-5-30 degree		
Furnace tube diameter	30 / 40 / 60 / 80 / 100 / 120 / 150 / 230 / 280 mm		
Single heating zone length	300 / 450 / 600 / 800 mm		
Heating zones quantity	2-8 zones		
Vacuum sealing solution	SS 304 flange with O ring		
Chamber material	Japan alumina fiber		
Heating element	Cr2Al2Mo2 wire coil	SiC	MoSi2
Temperature sensor	K type	S type	B type
Temperature controller	Digital PID controller/Touch screen PID controller		
Temperature control accuracy	±1°C		
Electric power supply	AC110-220V,50/60HZ		

Different tube material and size and heating zone length can be customized

# Vacuum Sealed Continuous Working Rotary Tube Furnace

Item Number: KT-CRTF



## Introduction

Experience efficient material processing with our vacuum-sealed rotary tube furnace. Perfect for experiments or industrial production, equipped with optional features for controlled feeding and optimized results. Order now.

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Furnace model	KT-CRTF12	KT-CRTF14	KT-CRTF16
Max. temperature	1200°C	1400°C	1600°C
Constant work temperature	1100°C	1300°C	1500°C
Heating rate	0-20°C/min	0-10°C/min	
Furnace tube material	Quartz/Metal alloys	Al <sub>2</sub> O <sub>3</sub> /Si <sub>3</sub> N <sub>4</sub>	
Rotary speed	0-20rpm		
Tilting angle	-5-30 degree		
Furnace tube diameter	30 / 40 / 60 / 80 / 100 / 120 / 150 / 230 / 280 mm		
Single heating zone length	300 / 450 / 600 / 800mm		
Vacuum sealing solution	SS 304 flange with O ring		
Chamber material	Japan alumina fiber		
Heating element	Cr <sub>2</sub> Al <sub>2</sub> Mo <sub>2</sub> wire coil	SiC	MoSi <sub>2</sub>
Temperature sensor	K type	S type	B type
Temperature controller	Digital PID controller/Touch screen PID controller		
Temperature control accuracy	±1°C		
Electric power supply	AC110-220V,50/60HZ		
Different tube material and size and heating zone length can be customized			

# Vacuum Tube Hot Press Furnace

Item Number: KT-VTP



## Introduction

Reduce forming pressure & shorten sintering time with Vacuum Tube Hot Press Furnace for high-density, fine-grain materials. Ideal for refractory metals.

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Hydraulic press	<p>Working pressure: 0-30Mpa          Travel distance: Pressure stability: <math>\leq 1\text{MPa}/10\text{min}</math>          Pressure meter: Digital pressure gauge          Drive solution: Electric drive with standby manual drive</p>
Vertical split furnace	<p>Working temperature: <math>\leq 1150^\circ\text{C}</math>          Heating element: Ni-Cr-Al resistance wire with dipped Mo          Heating speed: Hot zone length: 300mm          Constant temperature zone: 100mm          Controller: Touch screen with PID thermal controller          Rated power: 2200W</p>
Vacuum furnace tube	<p>Tube material: Quartz tube(Optional Alumina/Nickel alloy)          Tube diameter: 100mm(Optional 120/160mm)          Vacuum sealing: SS flange with silicon O ring          Flange cooling method: Inter layer water circulating cooling</p>
Graphite pressing die	<p>Die material: High purity graphite          (Graphite must work under vacuum to prevent oxidation)          Pressure rod diameter: 87mm          Sleeve die size: 55mm OD/ 50mm Height          Die inserts: OD22.8 x ID20.8          Pushing Rod: 12.7mmOD/40mm Height          Other sizes die can be customer made</p>
Vacuum pump setup	<p>Rotary vane pump vacuum is up to 10<sup>-2</sup> torr          Turbo pump station vacuum is up to 10<sup>-4</sup> torr</p>
Electric power supply	<p>AC110-220V, 50/60HZ</p>



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