

1400°C High Temperature Laboratory Tube Furnace With Alumina Tube

Item Number: KT-TF14



Introduction

KINTEK's Tube Furnace with Alumina Tube: Precision high-temperature processing up to 2000°C for labs. Ideal for material synthesis, CVD, and sintering. Customizable options available.

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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 Al ₂ O ₃ alumina	
Furnace tube diameter (mm)	30 / 40 / 60 / 80 / 100 (Other sizes customizable)	
Heating zone length (mm)	300 / 450 / 600 / 800 (Other lengths customizable)	
Heating zone quantity	1-10 zones (Customizable)	
Vacuum sealing solution	SS 304 flange with O ring	
Rated vacuum pressure	0.001Pa / 10 ⁻⁵ torr	
Rated positive pressure	0.02MPa / 150 torr	
Chamber material	High-quality Al ₂ O ₃ alumina fiber (e.g., Japan-sourced)	
Heating element	Cr ₂ Al ₂ Mo ₂ wire coil (SiC or MoSi ₂ for higher temperatures by customization)	
Heating rate	0-10°C/min (Adjustable)	
Temperature sensor	S-type thermocouple (Other types for different ranges)	
Temperature control accuracy	±1°C	
Temperature uniformity	±5°C (in constant temperature zone)	
Electric power supply	AC110-240V, 50/60HZ (selectable)	

Note: KINTEK offers extensive customization. Alumina tube sizes, heating zone lengths, number of zones, max temperature (up to 2000°C), and other specifications can be tailored to your precise requirements.

No.	Description	Quantity
1	Tube Furnace Main Body	1 unit
2	High Purity Alumina Tube	1 piece

Furnace model	KT-TF14	KT-TF14 Pro
3	Vacuum Sealing Flanges with Valves & Gauge Port	2 sets
4	Ceramic Tube Thermal Blocks/Plugs	2 pieces
5	Tube Block Hook/Extractor	1 piece
6	Heat Resistant Gloves	1 pair
7	Operation Manual & Warranty Card	1 set