

# High Pressure Laboratory Vacuum Tube Furnace Quartz Tubular Furnace

Item Number: KT-PTF

## Introduction

KINTEK High Pressure Tube Furnace: Precision heating up to 1100°C with 15Mpa pressure control. Ideal for sintering, crystal growth, and lab research. Customizable solutions available.

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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 (Customizable)	
Heating zone length	300 / 450 / 600 / 800 mm (Customizable)	
Heating zone quantity	1-10 zones (Customizable)	
Vacuum sealing solution	SS 304 flange with solid copper seal ring	
Rated vacuum pressure	0.001Pa/10E-5 torr	
Rated positive pressure	15 Mpa (at ambient temp), 4 Mpa (at 800°C)	
Chamber material	Japan Al2O3 alumina fiber	
Heating element	Cr2Al2Mo2 wire coil	
Temperature sensor	Built-in K type Thermocouple	
Temperature control accuracy	±1°C	
Temperature uniformity	±5°C (in constant temperature zone)	
Electric power supply	AC110-220V, 50/60HZ (Customizable)	

Other super nickel based alloy tube sizes and heating zone lengths can be customized.

No.	Description	Quantity
1	Furnace Main Body	1
2	High-Pressure Alloy Tube	1
3	Vacuum Flanges with Gas/Vacuum Ports & Pressure Gauge	2 sets
4	Tube Thermal Blocks/Plugs	2

5	Tube Thermal Block Hook	1
6	Heat Resistant Gloves	1 pair
7	Operation Manual	1