

# Multi Heating Zones Cvd Tube Furnace Machine For Chemical Vapor Deposition Equipment

Item Number: KT-CTF14



## Introduction

KINTEK's Multi-Zone CVD Tube Furnaces offer precision temperature control for advanced thin film deposition. Ideal for research and production, customizable for your lab needs.

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Furnace model	KT-CTF14-60
Max. temperature	1400°C
Constant work temperature	1300°C
Furnace tube material	High purity Al <sub>2</sub> O <sub>3</sub> 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 O <sub>2</sub> MFC2: 0-20SCCMCH <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
<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 (or other material as per order)	1
3	Vacuum flange set	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	Precise gas control unit (if ordered)	1
8	Vacuum unit (if ordered)	1
9	Operation manual	1