

# Custom Made Versatile Cvd Tube Furnace Chemical Vapor Deposition Cvd Equipment Machine

Item Number: KT-CTF16



## Introduction

KINTEK's CVD Tube Furnace offers precision temperature control up to 1600°C, ideal for thin film deposition. Customizable for research and industrial needs.

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Furnace model	KT-CTF16-60
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	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
<b>Gas precise control unit</b>	
Flow meter	MFC mass flow meter
Gas channels	3 channels (customizable)
Flow rate (Example)	MFC1: 0-5SCCM O <sub>2</sub> MFC2: 0-20SCCM CH <sub>4</sub> MFC3: 0- 100SCCM H <sub>2</sub> MFC4: 0-500 SCCM N <sub>2</sub> (customizable)
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 Body with Temperature Control	1
2	High Purity Alumina or Quartz Tube (as per order)	1
3	Vacuum Sealing Flanges with Ports	2 sets
4	Tube Thermal Blocks/Plugs	2
5	Tube Thermal Block Hook	1
6	Heat Resistant Gloves	1 pair
7	Precise Gas Control Unit (MFCs as per order)	1 set
8	Vacuum Unit (Pump & Gauge as per order)	1 set
9	Operation Manual	1