



NANO TEC

THERMAL CHEMICAL VAPOUR DEPOSITION SYSTEM



MODEL NO. NT/CVD/1600°C

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Thermal Chemical Vapour Deposition



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Features:

- Customized System Design
- Single and Multi Heating Zone Furnace
- Multiple Gas Channels
- Manual and/or Automated versions
- Customized Water cooling flanges for better cooling

Application:

- Synthesis of Carbon Nano-materials (e.g CNF, CNT, Graphene), Metal Oxides (e.g ZnO) etc
- High Vacuum Annealing

We are both developer and suppliers of vacuum deposition process systems and believe in providing the best solutions to our clients through modular approach and customization. We meet up with every requirement of our clients with high quality at cost effectiveness.

We provide customized Thermal Chemical Vapour Deposition (CVD) systems for the synthesis of nano materials like Carbon Nano-tubes, Graphene, Metal Oxides, Sintering of nano-materials in Vacuum or specific ambient. The Thermal CVD system consists of:



Specifications:

Furnace type	High quality Research Grade Furnace
Furnace Material	Ceramic Alumina Fiber
Tube Material	RCA Tube , Quartz Tube, Alumina Tube
Tube Size	60mm, 80mm , 100 mm OD x 1200mm L
Max/Working Temperature	1200 °C to 1700 °C
Heating element type	Kanthal, SiC/MoSi2
Temperature controller	Programmable temperature controller.
Temperature accuracy	+/- 1°C
Heating zone length	150 mm to 450 mm (Customized)
Temperature Controller	+/- 1°C with display of set and actual temperature
Vacuum sealing & flange kit	Customized Stainless Steel Water Cooling Flanges
Safety indication	EMO, Interlocks
Any noise and vibration	No
Over Temperature Protection controller with manual reset and temperature display with separate thermocouple	Yes

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Accessories

Water chiller:

- | | |
|--|-------------------------|
| 1. Outlet water temperature | : 5°C |
| 2. Small chiller cooling capacity | : 4.5kw |
| 3. Refrigeration gas type | : R22, R407c |
| 4. Air cooled condenser tubes with fan motor | : Finned copper |
| 5. Fan motor consumption | : 0.75kw |
| 6. Brewery chiller evaporator | : Water tank with coils |
| 7. Stainless steel water tank capacity | : 50Ltrs |
| 8. Pipe diameter | : DN32 |
| 9. Water pump power | : 1.2kw |



Vacuum Pump

Rotary Vane Vacuum pump imported

Vacuum Indicator

Dial vacuum gauge and digital vacuum gauge.

Heating Coil

Silicon Carbide / Mosi2 & APM Kanthal Heating element

PID Controller

Digital micro process PID controller comes programmer with multi segment



Alumina Crucible:

1. High quality 99.7% alumina tubes
2. Max working temperature 1800





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