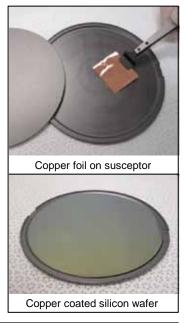
Graphene and Boron Nitride

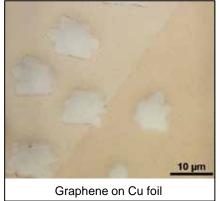
Process solutions

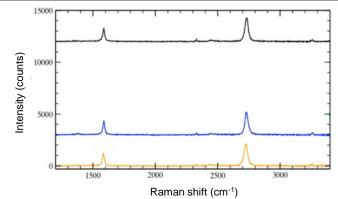
Benefits

- q High graphene quality: Single and multi-layers
- **q** Process capability:
 - § Investigation of early stage growth
 - § Synthesis on metallic foils: Cu, Ni...
 - § Single or batch samples
 - Continuous layer on wafers and foils.
- q Flexible processing for different applications
- q Fast growth and throughput

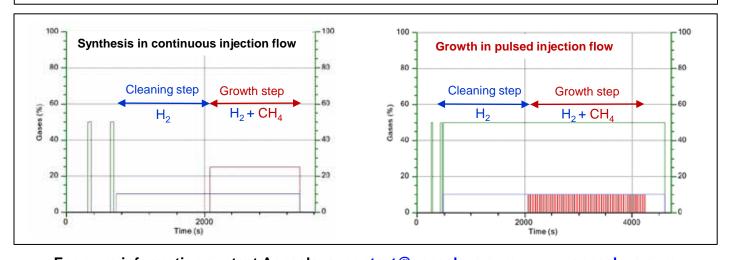








- Pressure: Precise control of the pressure 0.1 Torr to 760 Torr
- q Temperature: Precise control of the temperature from RT to 1400°C
- **q** Thermal profile: **fast ramp** up rate (>40°C/s) and cooling rate (up to 50°C/s)
- Precursor injection: Continuous or Pulsed gas flow injection



For more information contact Annealsys: contact@annealsys.com - www.annealsys.com - www.annealsys.co

Graphene and Boron Nitride

Rapid thermal processing equipment solutions

Features

- **q Fast-response heater:** Infrared halogen lamp furnace
- q Thermal CVD: Single / multi layers for Graphene and hBN
- q Extended temperature range: Up to 1400°C
- **Proven Processes:** Continuous or Pulsed gas flow injection
- **q Fast thermal cycles:** Short processes for higher throughput
- Rapid thermal processing capability

Advanced Design

- **q Cold-wall chamber technology:** Fast cooling capability
- Closed-loop infrared wafer temperature control
- **q Accurate temperature control:** Fast digital PID controller
- **q** Handling of CVD gases : CH₄, C₂H₂, H₂, etc.
- **q Substrate holders:** Quartz pins and graphite susceptors
- **q** Excellent reproducibility

Control

- q Full PC process control: Real time display & data collection
- **q Easy recipe-editing:** Step editor for process recipe
- **q Robust control system:** Industrial PLC and TCP/IP com.
- **q** System management tools and reports
- q Integrated safety interlocks



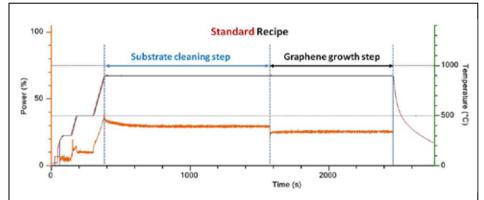
IR lamp furnaces

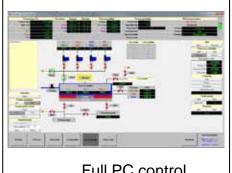


AS One series



AS Master series





Full PC control

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