

## **Ecopia Rapid Thermal Processing System**



- Heat treatment at low pressure
- Heat treatment at atmospheric pressure
- High accuracy temperature control
- No need for additional cooling system
- Compact desktop design
- Competitively priced

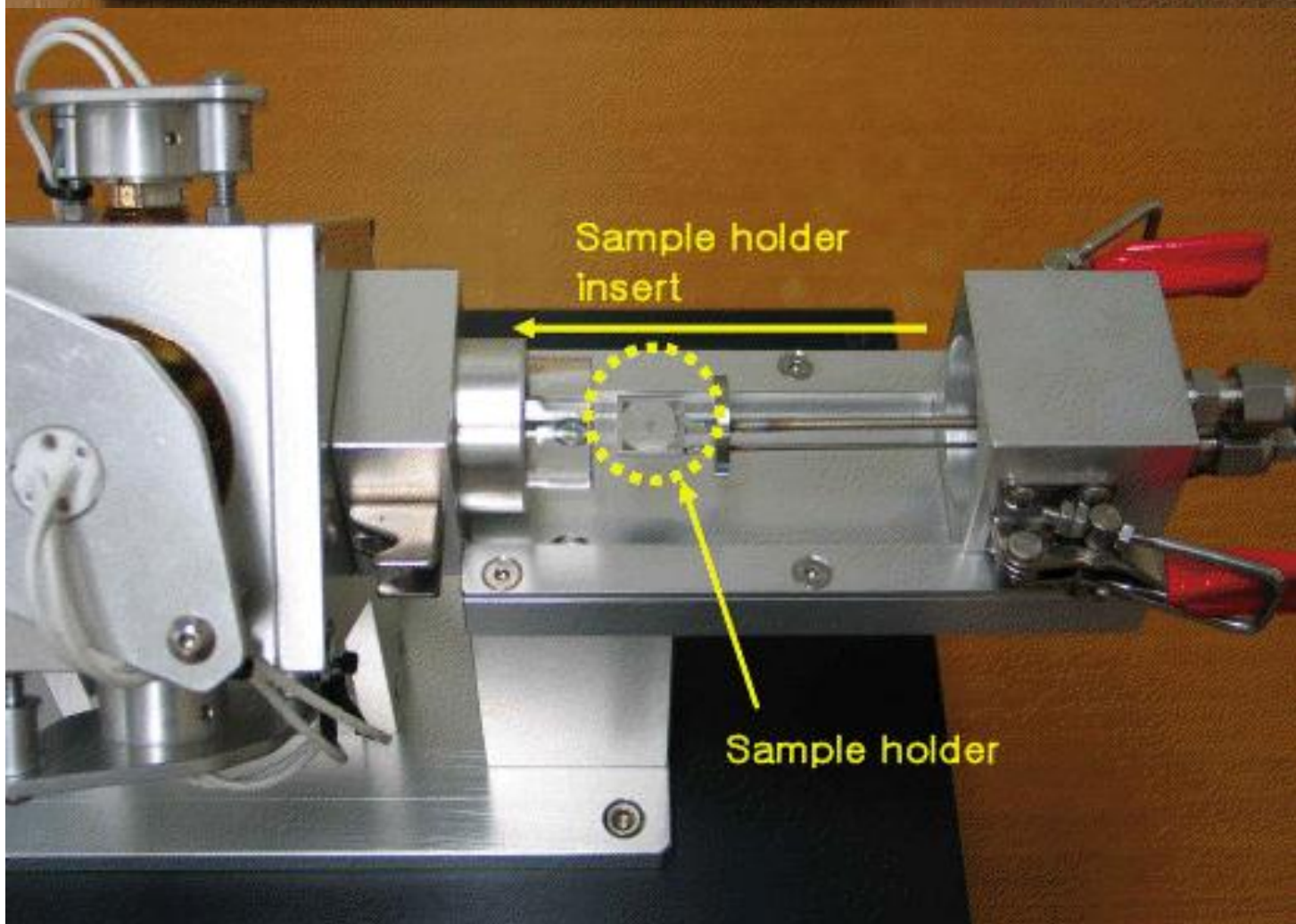
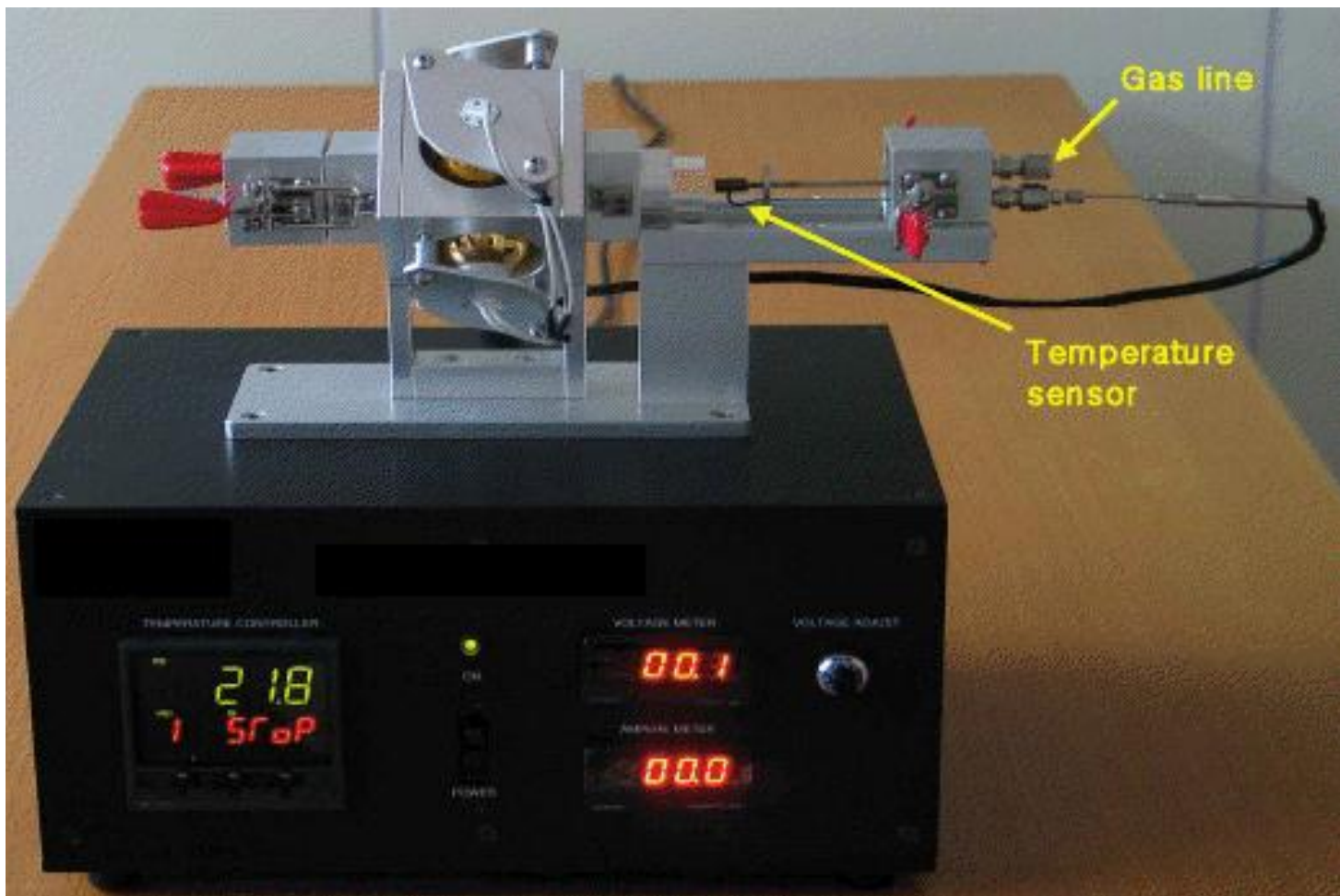
The RTP-1200 model is an easy-to-use yet powerful Rapid Thermal Processing system. Very high temperatures are attained using four tungsten-halogen lamps. The system is easy to install and operate. Valuable test data can be gathered quickly and conveniently at a very reasonable price.

### **Applications:**

- Thin film deposition
- Oxidize thin film on the sample
- Construction analysis of thin film at high temperature
- Paste material analysis
- Ohmic contact formation by .i.e., Ag Au electrical conductivity material
- Heat treatment after ion implantation and activating ion implantation
- Melting point analysis of alloy

### **Characteristics:**

- Easy to operate for heating samples at low pressure, purging gas, bringing sample under vacuum, and using at ambient atmospheric pressure.
- No need for additional cooling system
- Very convenient to load and unload of tested materials
- Compact desktop design and convenient to move and install.
- Accurate temperature control using temperature sensor in sample loading stage
- Can be used as furnace with capability of +/- 3°C accuracy.



## **SPECIFICATIONS**

|  |                                     |
|--|-------------------------------------|
| <b>Maximum Sample Size</b>                   | <b>15mm x 15mm or 15mm x 20mm</b>   |
| <b>Maximum rate of temperature rise</b>      | <b>100°C/second</b>                 |
| <b>Maximum cooling rate</b>                  | <b>1000°C to 400° in 50 seconds</b> |
| <b>Maximum Temperature</b>                   | <b>1200°C</b>                       |
| <b>Lamp Power (4-150 watt halogen bulbs)</b> | <b>600 Watts</b>                    |
| <b>Temperature Accuracy</b>                  | <b>+/-0.3°C at 1000°C</b>           |
| <b>System Size</b>                           | <b>40cm x 30cm x 45cm</b>           |
| <b>System Weight</b>                         | <b>30Kg (66 lbs)</b>                |
| <b>Electrical</b>                            | <b>220V, single phase</b>           |
| <b>Cooling system</b>                        | <b>None required</b>                |