

## AS-MICRO

### 3-inch RTP system for laboratories

#### APPLICATIONS

- Rapid Thermal Annealing
- Implantation annealing
- Compound semiconductor annealing
- Crystallization and Densification
- Etc.

#### SPECIFICATIONS

Three-inch rapid thermal processor  
Dedicated to research applications

Sample size: few square millimeters up to 3-inch  
Optional 3-inch susceptor for 2-inch sample

Quartz tube with stainless steel flanges process chamber  
Tubular infrared halogen lamps furnace  
Very fast ramp rates (> 250 C/s)

Horizontal motion door with quartz tray for easy loading and unloading of the wafers and thermocouple installation.

Thermocouple temperature measurement and the fast digital PID temperature controller assure high and stable temperature control across the temperature range.  
Optional pyrometer control.

Optional twin chamber to manage cross-contamination

The system is provided with full PC control with Windows compatible software.

#### PERFORMANCE CHARACTERISTICS

- Temperature range: RT to 1250 C
- Ramp rate up to 250 C/s
- Gas mixing capability with MFC
- Vacuum range: Atmosphere to  $10^{-6}$  Torr



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### General features

Maximum substrate diameter	3-inch		
Process chamber	Quartz tube with water-cooled stainless steel flanges Optional twin chamber to manage cross-contamination		
Heating	Infrared tubular halogen lamp furnace Fan lamp air-cooling		
Temperature control	Thermocouple temperature control Fast digital PID temperature controller Optional pyrometer control		
Vacuum and gas	Purge gas line with needle valve Up to 3 process gas lines with mass flow controllers Vacuum valve Vacuum gauge Optional vacuum pump Optional pressure control with throttle valve Optional turbo pump		
Control	Full PC control, up to 100 steps per recipe Ethernet connection to PC for fast control and data logging		
Facilities	Electricity: 3x400V+N+Gr or 3x220V+Gr, 50/60 Hz, 15kW Water: 2 to 6 bars, pressure drop 1 bar, 8 l/mn Compressed air: 6 bars (valve actuation) Process gas fittings: Swagelok ¼ (VCR optional)		
Dimensions and weight	<b>Single chamber</b>	<b>Twin chamber</b>	
	Width:	700 mm	700 mm
	Height:	700 mm	1,825 mm
	Depth:	700 mm	700 mm
	Weight:	82 kg	142 Kg

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