

AS-Micro RTP - SYSTEM

3-inch RTP system for laboratories From room temperature up to 1250°C Standard vacuum capability Twin chamber version to avoid cross contamination

Applications

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AS-Micro

RTP

Rapid Thermal Annealing Implantation annealing Ohmic contact annealing Rapid thermal oxidation (RTO) Rapid thermal nitridation (RTN) RTCVD of graphene

Specifications

The AS-Micro is a three-inch rapid thermal processor with vacuum capability dedicated to research applications. It can process substrates from few square millimeters up to 3-inch diameter or square. Optional susceptors are available to hold small samples and to process substrates with low infrared absorption.

The quartz tube process chamber with stainless steel flanges and tubular infrared halogen lamps furnace allows running processes up to 1250°C with very fast ramp rates (> 250°C/s). The state of the art temperature controller provides accurate temperature control.

Basic features

Substrate size	Up to 3-inch diameter or 3"x3" Small substrates using susceptors
Process chamber	Quartz tube with water cooled stainless steel flanges Optional twin chamber version to avoid cross contamination
Temperature range	From room temperature up to 1250°C
Temperature control	Thermocouple and pyrometer temperature control Fast digital PID / RTP temperature controller
Vacuum and gas	Up to 5 process gas lines with digital mass flow controllers One purge gas line Vacuum valve and vacuum gauge
Control	Full PC control, up to 100 steps per recipe Human interface designed in respect of SEMI E95-0200 Full data logging and process historicals

Optional features

Pyrometer temperature control Graphite and silicon carbide coated susceptors Rough vacuum pump, Turbo pump Downstream pressure control with throttle valve

Customer support

Outstanding customer support for hardware, software and process Efficient remote support using software diagnostic capabilities High expertise in RTP processes of our process engineers Capability to support customer for process optimization

Physical specifications

Facilities	Voltage : 3x400V+N+Gr / 3x220V+Gr Power : 15 kW Water : 2 to 4 bars, pressure drop 1 bar, 8 l/mn Compressed air : 6 bars (valve actuation) Process gas fittings : double ferrule ¼ or VCR ¼ (option)					
		Single chamber		Twin chamber		
Dimensions and weight	Width Depth Height Mass	700 mm 700 mm 700 mm 82 kg	27,6" 27,6" 27,6" 181 lbs	700 mm 700 mm 1,825mm 142 kg	27,6" 27,6" 71,9" 313 lbs	



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