



Applications

RTA (Rapid Thermal Annealing)
Selenization and Sulfurization
Diffusion
RTO (Rapid Thermal Oxidation)
Ohmic contact annealing
Crystallization and Densification

AS-Premium RTP - SYSTEM

RTP system for up to 156x156 mm² substrates

From room temperature up to 1300°C

Standard vacuum capability

Multi configurations reactor and lamp furnace

Specifications

The AS-Premium system can process samples up to 156x156 mm².

The reactor platform and the machine have been designed to accommodate a wide range of configurations to meet the process requirements of our customers.

The chamber can receive a single side or a double side lamp heating furnace. The design of the process chamber allows manual loading or the connection to a cluster tool or a glove box (options).

Pyrometer and thermocouple temperature control are standard features. The fast digital PID temperature controller provides high temperature reproducibility. Graphite and silicon carbide coated graphite susceptors are available for processing of samples with encapsulation.

Full data logging and process historicals

Optional features

Graphite and silicon carbide coated susceptors Rough vacuum pump and turbo pump, automatic pressure control with throttle valve Fast cooling system, Selenization kits

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: 46 kW, 56 kW or 80 kW

Water: 2 to 4 bars, pressure drop 1 bar, 15 to 30 l/mn

Compressed air: 6 bars (valve actuation)

Process gas fittings: double ferrule ¼ or VCR ¼ (option)

 Dimensions and weight
 Width
 730 mm
 28,8"

 Depth
 1,450 mm
 57,1"

 Height
 1,950 mm
 76,8"

Mass 350 to 450 kg 771 to 992 lbs







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