

JETFIRST Series RTP - Rapid Thermal Reactors

RTA - RTO - RTN

The Jipelec **JETFIRST** has been developed to meet the requirements of Universities and Research Laboratories. The temperature measurement control system provides accurate and repeatable thermal control across the temperature range.

The lamp array, upper flange, and quartz window are mounted in a rotating top lid, giving full access to the chamber for easy loading and unloading of the wafer.



- ⇒ **Bench Top or Stand Alone Reactor**
- ⇒ **Wafer Size: 100 to 300mm**

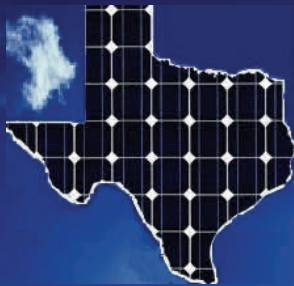
Silicon Carbide coated graphite Susceptors are available for processing of various small samples like III-V(GaAs) and II-VI (InP) compounds.

A spare process chamber can be provided upon request to avoid cross contamination if several processes have to be performed in the same reactor.

The high reliability and high performance characteristics of the JETFIRST enable small scale production.



- ⇒ **Cost Efficient for Research Labs & Universities**
- ⇒ **Easy Access for Loading and Unloading**
- ⇒ **Square Chamber available for Solar applications**



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Applications	
RTA - Rapid Thermal Annealing	
RTO - Rapid Thermal Oxidation	
RTN - Rapid Thermal Nitridation	
RTD - Rapid Thermal Diffusion from Spin -on Dopants	
Crystallization	
Contact Alloy	
Densification	
Firing	
Performance	
Temperature Range	Ambient - 1400°C
Ramp Rate	1°C/sec - 400°C/sec
Pyrometer Control	150°C - 1400°C
System Size	
Length x Width x Height (Bench Top)	34 x 30 x 27 in (850 x 750 x 675 mm)
Length x Width x Height (300mm)	39 x 35 x 59 in (1000 x 900 x 1500 mm)

Features	
Bench Top Model up to 200mm	
Wafer Sizes up to 300mm	
Cold Wall Chamber Technology	
Pyrometer and Thermocouple Temperature Control	
Atmospheric and Vacuum Process Capability	
Up to 3 Gas Lines with MFC's	
Process Management Software with PC Control	
Optional Features	
Pumping Equipment	
Spare Chamber	
Solar Chamber - Square Design	
Up to 6 Gas Lines	
Warranty & Delivery	
Warranty	1 Year Standard (2 Years Optional)
Time of Delivery	4 Months

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