

JETLIGHT SERIES

BATCH TYPE RTP / RTA FURNACE

The ECM Jetlight 50 system is a compact and robust heat treatment system suitable for the Rapid Thermal Annealig (RTA) of a wide range of material substrates and structures (Electronic Grade Si, steel glass, SoG c-Si, III-V, II-VI, Germanium, superconductors, ceramics etc.) with a maximum size of 2-inch diameter (50 mm).

The furnace is equipped with a **tubular quartz reaction chamber** and is therefore compatible with the processing of 3D samples with a maximum length of 100mm.

KEY FEATURES

- Software-controlled stand-alone single chamber reactor
- Hot wall chamber design
- Microprocessor-based thyristor technology
- Up to 2 MFC-controlled gas introduction lines
- Substrate size up to 50 mm diameter
- Atmospheric and vacuum process capabilities
- PID temperature control through thermocouples
- Ideal for research labs & academic applications



RTP MODULE CHARACTERISTICS

- Reactor technology Water cooled metal chamber
- RTP heating system Crossed-lamp IR Technology
- Temperature rangeRT to 1200°C
- Temperature uniformity (typical)+/- 1°C
- Cooling Fan & water-cooled reflector

POSSIBLE PROCESSES

- Rapid thermal annealing (RTA)
- Rapid thermal oxidation (RTO)
- Rapid thermal nitridation (RTN)
- Rapid thermal diffusion (RTD)
- Printed contact firing
- Crystallization
- Densification
- Structural stress relaxation

MAIN STRENGTHS

- Easy control of temperature profiles to adjust the process: fast ramp up & cooling
- Versatile tool for a large range of applications
- Standard equipment allowing short delivery times
- Process at atmospheric pressure or under vacuum