



Kratos SRE's Quartz Radiant Facility is primarily used to evaluate thermal response in Thermal Protection System (TPS) materials.

### ■ **Applications**

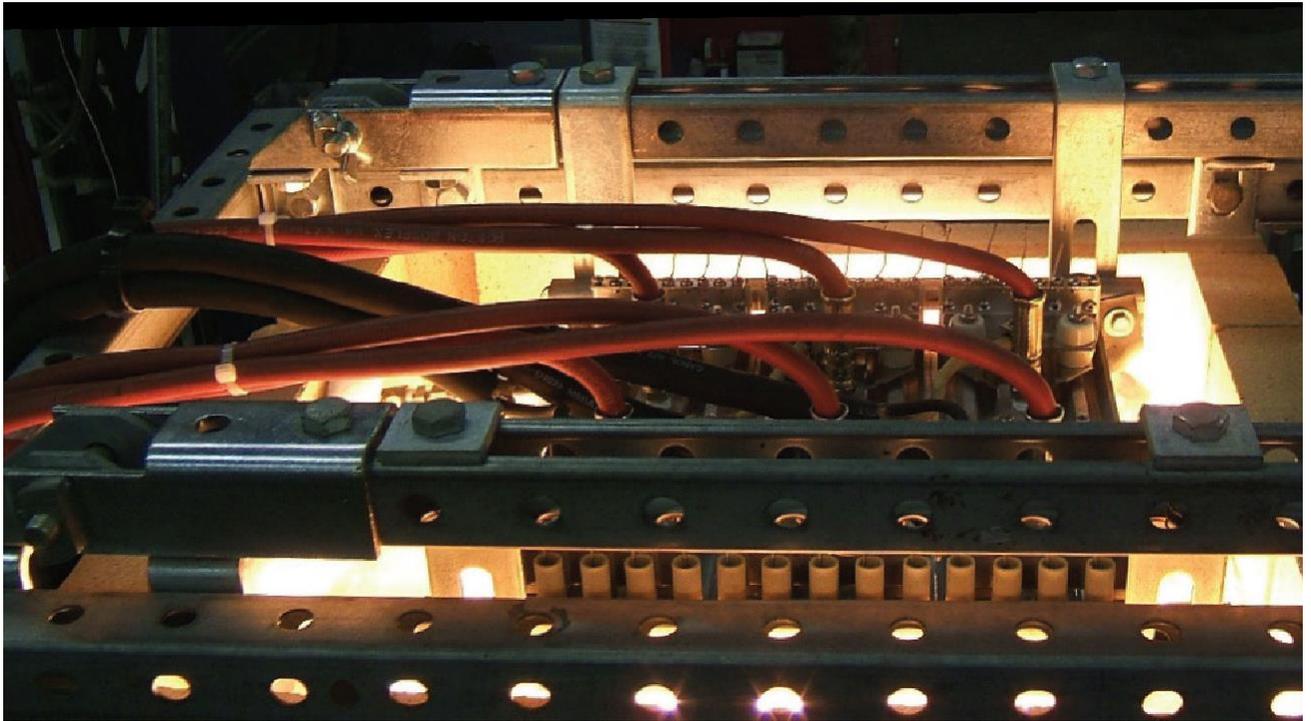
- Material heat treatment/cycling in air, low pressure air, and vacuum to temperatures as high as 2200°F (1200 °C) with automated, digital control and data acquisition of temperature
- I-D thermal response for materials screening thermal protection systems (TPS), heat shields, solar structures
- Survivability testing

### ■ **Capabilities**

- 10" x 12" hot zone
- Radiant heat source-15 quartz lamps (30 kW total)
- 1 atm and vacuum (10<sup>-6</sup> Torr)
- Control and DAQ with LabVIEW™
- High heating rates possible (material specific)
- In-depth thermal measurement



Image of Quartz Radiant Facility in the vacuum chamber



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