

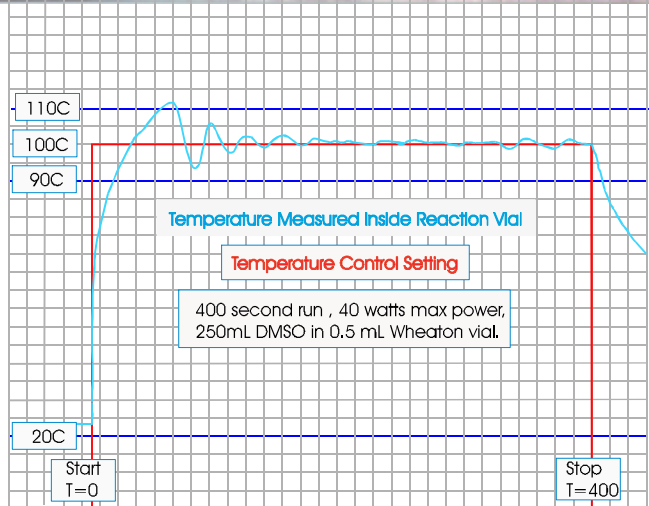
**SPECIALISTS IN INSTRUMENTS FOR MICROWAVE ACCELERATED CHEMISTRY**



The Model 521 adds temperature control to the model 520A. An infrared thermometer is mounted on the reaction cavity sidewall and a negative feedback power control system is added to the unit.

Time, reaction temperature, and power may now be controlled directly on the front panel or remotely controlled through an RS232 serial connection.

This chart demonstrates typical temperature control achieved by the 521.



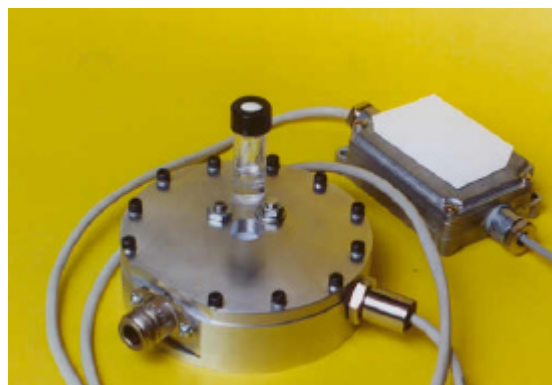
Measurements were made with an optical fiber thermometer immersed in the reaction

Infrared temperature control allows continuous microwave radiation of the reaction without danger of evaporation or burning.

This control yields more consistent results and better repeatability from reaction to reaction.

**Specifications:**

- Power Output Variable from about 10 to 150 watts.
- Temperature control from 30 to 180 degrees C.
- Size - 12" w x 7-1/2" h x 17" d
- Weight - 35 lbs
- Power requirements - 118 VAC at 8 amps.
- Reaction Cavity - single mode TE cavity
- Interconnecting Cable 8' standard
- Front panel keyboard or remote PC control of time and power.



Reaction Cavity and Infrared Thermometer with 0.5 ml Wheaton(tm) Reaction Vial