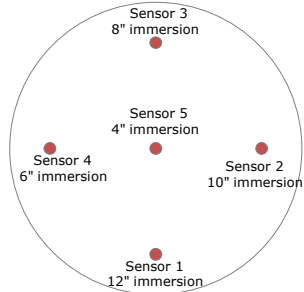


## Techne FB08 Fluidized bath performance

### Test method and setup

5 Type K thermocouples 1/8" in diameter were placed in a 5" radius around the center of the bath. Each of the 5 thermocouples were immersed at 2" incrementing depths starting at a 12" and ending at 4". The maximum possible immersion depth to the porous plate is 14". Readings were logged every 15 seconds. The graph below shows the observed results over a 50 minute period. Mains voltage to the bath under load measured 228 VAC at 11.4 amps.



Front of FB08 bath

### Test Results from Graph 1 below

Average axial uniformity over the 8" depth for the 50 minute period measured was 0.82 degrees at the operating temperature of 600 degrees C. Individual Sensor measured stability are as follows:

Sensor	1	2	3	4	5
Stability +/-	0.60	0.75	0.75	0.55	0.50

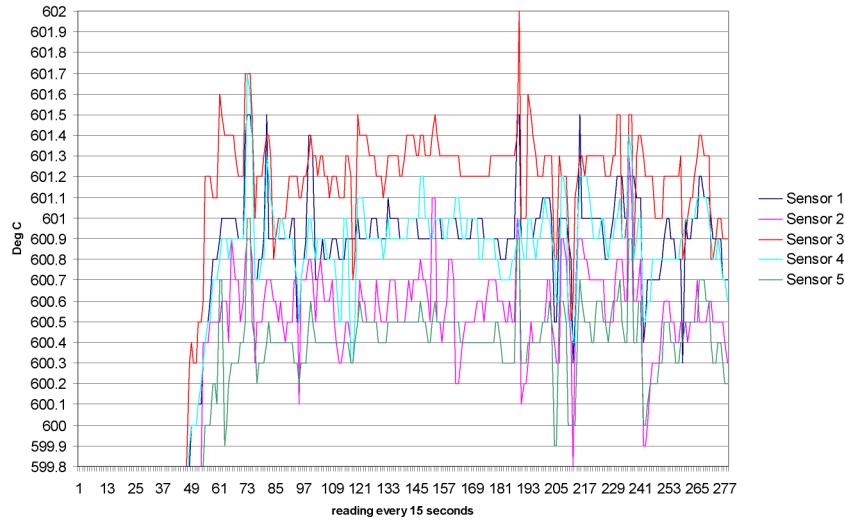
### Test Results from Graph 2 below

In addition to unmatched stability and uniformity the FB08 Fluidized bath quickly recovers from thermal shocks or quenching. The FB08 was designed with a sufficient amount of thermal capacity to quickly recover from these events.

In graph 2 we immersed a 1.5 pound stainless steel mandrel into the bath at a 10" depth while the bath was controlling at 600C. The FB08 fully recovered from the indicated temperature drop within 7.5 minutes.

### Techne FB08 Stability and Axial uniformity

GRAPH 1



### Techne FB08 recovery after mandrel immersion

GRAPH 2

