

Mini-brute operational guide

Set the temperature setting on the three zones for your desired temperature
See Figure.



Calibration done on 4/16

Range 200-400 C; Low temp thermocouple is loaded in the Mini brute furnace;
Nitrogen flow is set at 35sccm.

Temperature °C	Left zone setting	Center zone setting	Right zone setting
200.7	400	390	400
300	700	680	700
325	860	850	860
400.5	960	940	960

Range 200-400 C; High temp thermocouple is loaded in the Mini brute furnace;
Nitrogen flow is set at 35sccm.

Temperature °C	Left zone setting	Center zone setting	Right zone setting
499.4	85	84	85
600.2	200	185	200
704	310	290	310
802	405	390	405
903	510	490	510
1002	610	590	610

If you desired temperature is > 400C STOP!!!!.

Check the thermocouple in the Minibrute furnace, if it is the one for the high temperature settings. See Figure 2.

If you have to change the thermocouple please refer to the video.

Turn ON the nitrogen, See figure.

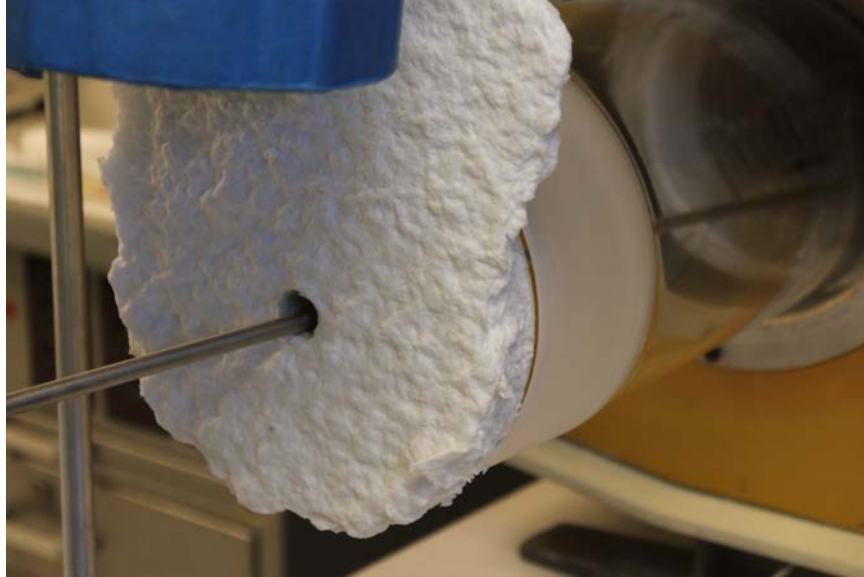


Turn ON water supply, see figure.



Turn on the Power supply.

Load the thermocouple (see figure below) in the tube and make measurements. Once your desired temperature is achieved remove the thermocouple and load your sample.



After annealing for the desired time period, remove you sample.

Turn OFF the nitrogen.

Turn OFF the power supply. Allow it to cool down.

Turn OFF the water supply.

IT IS IMPERATIVE THAT YOU TURN OFF THE WATER SUPPLY AFTER IT IS COOLED DOWN. OTHERWISE THERE MIGHT BE FLOODING, IF THERE IS A LEAK.