

University of Minnesota Nano Center

Hotplates-Standard Operating Procedure

Badger Name: n/a

Model: HP131725/133735

Location: Keller-Bay 2

Revision: 4

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Hotplates-Standard Operating Procedure

1. Scope

1.1. This document provides detailed instructions on how to properly operate the hotplates.

2. Tool description

2.1. The 7-inch by 7-inch ceramic top hot plate has a closed loop feedback control, which will accurately maintain temperature $\pm 10^{\circ}\text{C}$ for a 2" diameter area at the center of the hotplate. Temperature stability at the center of the top plate surface is $\pm 1.0^{\circ}\text{C}$.

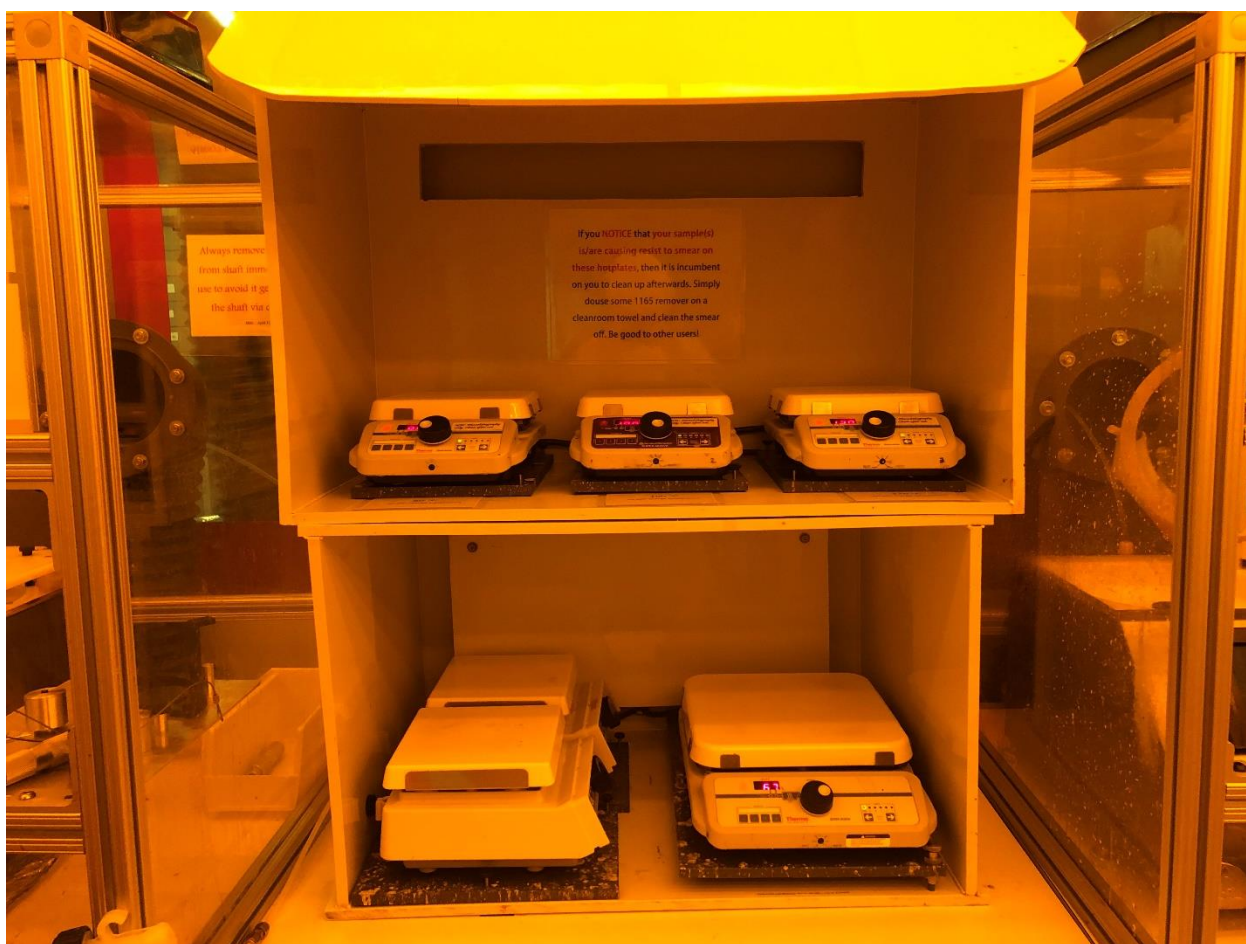


Figure 1 The hotplates in Keller Hall-Bay 2.

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3. Safety

3.1. The hot plate is surface is always hot, remove substrates with a metal or Teflon coated metal tweezers.

4. Restrictions

4.1. Maximum Temp °F (°C) is 698°F (370 °C).

4.2. Completed the aligner short courses.

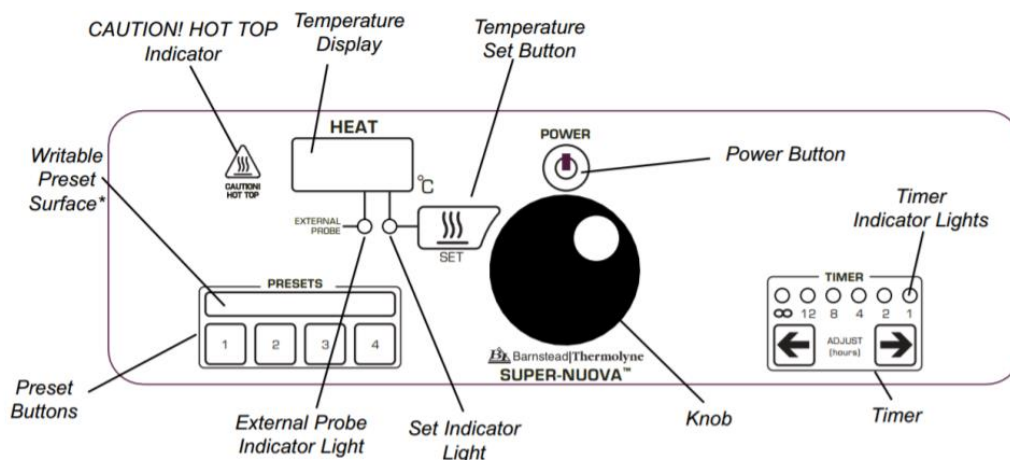
4.3. Only substrates with clean backsides are to be heated. Do not heat beakers with any type of liquid. Do not move the hot plate. It is to remain within the vented area.

4.4. Clean up the surface of the hotplate if it is dirty after use.

5. Tools and Equipment

5.1. 120V outlet

6. Operating Instructions



7. Problems/Troubleshooting

7.1. If the hot plate is not on, press the **POWER** button. It will take 5 to 10 minutes to stabilize.

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7.2. If the hot plate is at the incorrect temperature or off, press the **SET** button. Adjust the temperature using the large knob and once the proper setting is obtained, press **SET** to activate. The set point will be displayed for a couple seconds until the lit display returns to the actual temperature.