University of Minnesota Nano Center

Prebake Dehydration Oven-Standard Operating Procedure

Badger Name: n/a Revision: 4

Model: Blue M Stable Therm Revisionist: Laura Parmeter Location: Keller-Bay 2 Date: March 25, 2020

Table of contents

- **1.** Scope
- 2. Tool description
- **3.** Safety
- 4. Restrictions
- 5. Tools and Equipment
- 6. Procedure
 - **6.1.** Setup
 - **6.2.** Operating Instructions
- 7. Problems/Troubleshooting

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1. Scope

1.1. This document provides detailed instructions on how to properly operate the Prebake Dehydration Oven.

2. Tool description

2.1. This is a non-exhausted oven with a monitored temperature setting of 150 °C. There is a center rack for placing substrate boats. The dial is set at 150 °C.



Figure 1 The prebake dehydration oven.

3. Safety

3.1. Take caution when unloading your hot substrates when the Prebake time is complete.

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4. Restrictions

- **4.1.** Wafers must not have any material on the surface that could out-gas fumes. This oven is not exhausted.
- 4.2. Do not change the temperature of this oven; it is to remain at 150 °C.

5. Tools and Equipment

- **5.1.** 120V electrical outlet.
- 5.2. Quartz boat (optional)

6. Procedure

6.1. Setup

- **6.1.1.** Place your substrate perpendicular in the quartz boats provided or place them on a handmade foil boat.
- **6.1.2.** Users must supply their own method of timing the length of bake.

6.2. Operating Instructions

6.2.1. Open the door and place substrates in the oven on the rack and close the door.

7. Problems/Troubleshooting

7.1. If the settings are not at the above set point, notify MNC staff.