Bionix® Dry Heat Convection Oven for Clinical Settings

INSTRUCTION MANUAL - SUPPLEMENT

Table of Contents

bionix®

1. Introduction

Welcome to the Bionix Dry Heat Convection Oven developed for efficient and consistent heating of thermoplastic masks used in clinical settings. This guide provides the essential steps for safe installation, daily use and routine care of your oven. **This oven is not a medical device. It is a general-purpose convection oven intended only for heating thermoplastic masks in accordance with the mask manufacturer's instructions. It does not diagnose, treat or otherwise interact with patients.**

2. Safety Guidelines

To ensure safe and proper use of your Bionix dry heat convection oven, please observe the following guidelines. This equipment is intended for use by trained clinical staff only and should be operated in accordance with facility safety protocols.

Basic Safety
- Use only by trained clinicians or designated staff.
- Before cleaning or maintenance, disconnect the oven from power.
- Do not attempt internal repairs. Contact a qualified technician for service or part replacement.

Burn Risk
- Oven components can become extremely hot during operation. Always use insulated gloves and heat-resistant tools when handling trays or accessories.
- Open the oven door slowly to avoid exposure to high-temperature air.
- Do not touch internal components such as fans or heating elements during or after use until fully cooled.

Electrical Risk
- Never access internal electrical compartments. Doing so may result in electric shock and void the warranty.
- If the oven does not function normally or appears damaged, disconnect it and contact technical support immediately.

Fire Risk
- Keep the oven cavity free of paper or other flammable materials.
- Clean the oven as needed to prevent buildup that can ignite.
- Do not use the oven near volatile or flammable substances such as alcohol or aerosol cleaners.

Operational Safety
- Always preheat the oven without items inside.
- Ensure the oven is installed in a well-ventilated area, away from walls, curtains or other heat-sensitive materials.
- Operate the oven between 41°F and 95°F ambient room temperature for best performance.

For additional safety protocols and maintenance procedures, refer to the full user manual provided by the oven manufacturer.

3. Oven Overview

- Model: Bionix Digital Convection Dry Heat Oven
- Power Supply: Single-phase, 120V
- Control Panel: Digital interface for temperature and time settings
- Circulation: Integrated convection fan for uniform heating
- Application: For heating radiation therapy accessories

4. Setup & Installation

- Place the oven on a stable, non-combustible surface like the Bionix cart.
- Remove protective films and inspect for packing residue.
- Ensure easy access to an outlet that matches the oven's voltage and current needs.
- Maintain 2 to 4 inches of clearance on all sides.
- Do not install on the floor or enclose the oven within cabinetry.

For additional setup and installation procedures, refer to the full user manual provided by the oven manufacturer.

5. Daily Operation

1. Plug In Oven (0.00 Lights Up in Red) **(Figure 1)**
2. Push **PRE** – This begins the Pre temp process. Temperature Lights up red, including the line under the temp gauge icon **(Figure 2)**.
3. Use + and – to adjust to the desired temperature **(Figure 3)**.
   For best results, set the oven temperature 30°F higher than your target heating temperature during preheat to compensate for heat loss when opening the door. For example, if your desired heating temp is 160°F, add another 30 degrees and set at 190°F using the + & - keys.
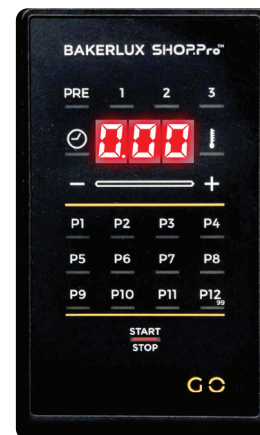

| Figure 1 | Figure 2 | Figure 3 |

4. Next, to add the desired heating time, **push 1**. The time symbol will light red **(Figure 4)**.
5. Use the + & - to set your timer. For example, 6 minutes is 0.06 **(Figure 5)**.

Figure 4

Figure 5

6. Next, pushing the **temperature symbol (Figure 6)** allows you to set the temperature by using the + & - keys **(Figure 7)**. In our example 160°F.

Figure 6

Figure 7

7. Push **Start** – GO!

   PRE   TIME   SET-TEMP
   190°F   6min   160°F

8. It could take up to 12 min to warm up.
9. Every few seconds, the display will flash the current temperature as it warms up.
10. Once the desired temperature is reached, the thermometer light will turn off and the oven will beep until you open the door.
11. ⚠️**CAUTION: Open slowly to avoid exposure to high-temperature air.**

12. **General References For Bionix masks (160°F):**
    • Head only 2.4mm set the timer to 6 minutes
    • Head only 3.0 mm, set the timer to 10 minutes
    • Head & shoulders 2.4mm, set the timer to 8 minutes
    • Head & shoulders 3.0mm, set the timer to 12 minutes
    • For Bionix TruGuard Custom Tongue and Jaw Positioner (160°F), set the timer for 6 minutes.
    • Visit bionix.com for the current Thermoplastic Masks Instructions for Use.

    For all other vendor masks, consult with the specific vendor product guidelines as heating instructions may vary.

13. Place the thermoplastic item on the center rack **(Figure 8)**. Suggestion: Put the mask in so there is the most frame you can grab facing you when you open the door. Example: a head and shoulders mask should go in shoulders first and head facing you.

Figure 8

14. Close the oven door **(Figure 9)**. This will begin the heating process & the timer countdown. Every few seconds, the timer will flash until the set time is complete. When finished, the oven will flash and beep until the door is opened. For best forming potential, it is wise to grab the mask by the outside mask frame and not grab the thermoplastic material on the inside portion of the mask.

Figure 9

15. Remove thermoplastic items carefully, so as not to touch internal components or the glass door.
16. Follow specific vendor product guidelines for cooling time before the mask is applied to the thermoplastic baseplate and molded.
17. Power down the oven by pressing the Stop button for approximately 2-3 seconds. Oven enters standby automatically if unused for 15 minutes.

For detailed instructions on how to operate the oven, please refer to the Unox® BAKERLUX SHOP.Pro™ Operation Manual pages, 8-12.

6. Cleaning & Upkeep
- Always unplug before cleaning.
- Use non-abrasive cleaners with a soft cloth.
- Avoid chlorine products, powders, or rough sponges.
- Clean spills promptly.
- Maintenance (every 4–6 months):
    - Check and tighten rack and fan hardware
    - Compare internal temperature with a probe thermometer
    - For additional support, contact Bionix Customer Service

7. Troubleshooting

Issue	Resolution
Oven not turning on	Check power source, reset thermostat, inspect fuse
Inadequate heating	Confirm fuse is seated securely
Error code A02	Reset thermostat, inspect and clean fuse holders
Rattling sound	Tighten rear fan bolts inside the chamber
My display is showing a letter number combination	These are alarm/warning messages. Please see page 16 in the Unox® BAKERLUX SHOP.Pro™ Operation Manual for details as to what each code is indicating and solutions.

For details about what to do with the oven during periods of inactivity please see page 18 of the Unox® BAKERLUX SHOP.Pro™ Operation Manual.

8. Specifications
- Oven external dimensions: 31.5 x 16 x 33.25 inches.
- Oven internal dimensions: 27.5 x 10.5 x 19.5 inches.
- Weight: Approx. 86 lbs (39 kg)
- Max Operating Temp: 500°F
- Power Draw: 13A (recommended 20A circuit)

9. Warranty Coverage
Your Bionix convection dry oven includes a 1-year limited warranty covering parts and workmanship. Consumables such as bulbs and gaskets are not included. Unauthorized service will void your warranty. To begin a claim, contact Bionix Customer Support.

bionix®