

Revision : ----	Document Code: WI- ML- 6378	Document Title: Standard Operating Procedure (SOP) for Memmert Universal Oven	 دانشگاه علم پزشکی و خدمات بهداشتی و درمانی استان گیلان واحد ویرایش
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1. Purpose

To establish the standard operating procedure for the use of the **MEMERT UNB400 Dry Heat Sterilizer** (Made in Germany).

2. Scope of Operation

Disinfection and sterilization of laboratory equipment and metal instruments sensitive to moisture.

Temperature Range: 0°C to 220°C .

3. Responsibility

The implementation of this procedure is the responsibility of the relevant laboratory experts.

4. Operating Procedure

- Turn on the device using the **Power** switch.
- Set the desired temperature and time using the rotary knobs (use the **SET** button to toggle between temperature and time selection).
- Open the door and place the materials and instruments to be sterilized inside the chamber.
- Once the cycle is complete, the timer will display “0”. Press the **Power/Off** button to turn off the device.
- After the device has cooled down completely, open the door and remove the sterilized materials and instruments.

5. Safety Instructions

- Electrical Safety:** Ensure all electrical appliances are connected to outlets equipped with proper **grounding (Earth)**.
- Load Management:** Do not connect two or more ovens to a single electrical outlet.
- Power Failure Protocol:** In the event of a power outage, **do not** connect the device to an emergency power system or **UPS**. (Connecting a high-load device to a UPS can cause an overload and damage the system).
- Burn Prevention:** To prevent potential burns, never place your face or other sensitive body parts close to the door while opening the oven.
- Hazardous Materials:** Do not use flammable or explosive substances inside the oven.
- Corrosion Prevention:** Prevent the splashing of acidic solutions or the release of corrosive vapors inside the chamber to avoid damaging the internal surfaces and shelving.
- Personal Protective Equipment (PPE):** When removing items from the oven, always wear appropriate PPE, including **heat-resistant insulated gloves** and **safety goggles** (or eye protection).

6. Maintenance

- Pre-Cleaning:** Always disconnect the oven from the power outlet before cleaning.

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- **Service Schedule:** The device requires a **periodic inspection every six months** and a **thorough cleaning every month**.
- **Cleaning Method:** Clean both the internal and external surfaces of the oven using a cloth moistened with a **mild detergent solution**.
- **Electrical Protection:** Avoid any contact between cleaning agents and the device's electrical components/structures.
- **Reconnection:** Before reconnecting the oven to the power supply, ensure that the interior of the oven is completely dry.

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