

# Thermoline 1315M Furnace

## Thermoline Furnace



**Tool Type:** Furnace

**Location:** Microfluidics Lab

**Description:** Furnace

**Manufacturer:** Thermoline

## About

From the manufacturer: The furnace chamber is heated by a single three section resistant heater which is embedded in a refractory material. The chamber is insulated with a ceramic fiber insulation. The temperature is controlled by an electronic control. The temperature is measured by a thermocouple and is registered on a digital display. For safety, door switches are incorporated to remove power from the heating elements when the door is opened. The furnace is supported by the control section which also houses the electrical connections.

## Safety Concerns

- High Temperature
- No combustibles or hazardous materials
- Thermally insulating gloves must be worn when working with hot items.
- Do not use to heat food.
- Never heat a sealed container.
- Do not operate the furnace if it is damaged, or is not working properly. Please place a note on the oven to alert other users, and notify laboratory staff of the problem.
- **Double containment is required for heating containers of liquid to prevent leaked material from contaminating the oven. This is especially true when heating PDMS molds.**

## Operating Procedures

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## Detailed Specifications

- Chamber dimensions: 4" W x 3.75" H x 4.5" D (10.2 x 9.5 x 11.4 cm)
  - Temperature ranges: 100C-982C for continuous use, or 982C-1100C for intermittent use.  
Continuous use is operating the furnace for more than three straight hours, and intermittent use is operating the furnace for less than three hours.
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## Reference Documentation

[Operations and Repair Manual](#)

[Manual](#)

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