

## Rectangular water bath



A **rectangular water bath** is a laboratory device used to heat or maintain samples at a constant temperature in a water-filled chamber. It is characterized by its rectangular shape, which provides a larger surface area for holding multiple samples simultaneously. Key features and applications include:

- **Design:** Typically made of stainless steel or other corrosion-resistant materials, with a rectangular chamber to accommodate beakers, flasks, or test tubes.
- **Temperature Control:** Equipped with a digital or analog thermostat for precise temperature regulation, often ranging from ambient temperature to 100°C.
- **Applications:**
  - Incubating samples at a constant temperature.
  - Melting or heating substances.
  - Conducting chemical reactions or biological assays.
  - Used in microbiology, chemistry, and clinical laboratories.
- **Advantages:** Uniform heating, large capacity for multiple samples, and durability.
- **Variants:** Some models include additional features like shaking mechanisms or lids to prevent evaporation.

Rectangular water baths are essential in labs for tasks requiring controlled heating or incubation.