

Heating Mantle



A heating mantle is a laboratory device used to heat chemical solutions or liquids in glassware (such as flasks) uniformly and safely. It is commonly used in chemistry labs for processes like distillation, reflux, and controlled heating. Here's a brief overview:

Key Features:

1. Design:

- Consists of a heating element embedded in a fabric or aluminum shell that conforms to the shape of the glassware.
- Available in various sizes to fit different flask volumes (e.g., 50 mL to 5 L).

2. Temperature Control:

- Equipped with a thermostat or digital controller for precise temperature regulation.
- Some models include magnetic stirrers for simultaneous heating and mixing.

3. Safety Features:

- Prevents direct exposure to open flames, reducing fire hazards.
- Overheat protection to avoid damage to the mantle or glassware