Heating Mantle



A Heating Mantle is a laboratory device used for uniform heating of liquids in round-bottom flasks. It provides controlled heating without direct flame exposure, making it ideal for chemical, pharmaceutical, and research applications.

Key Features:

- Fabric or metal heating element for even heat distribution.
- Adjustable temperature control for precise heating.
- Prevents thermal shock to glassware.
- Available in different capacities (50 mL to 5 liters or more).

Working Principle:

- 1. The flask is placed inside the hemispherical heating chamber.
- 2. The heating element warms up, providing gentle and uniform heat.

3. No direct flame, reducing the risk of overheating or sample degradation.

Applications:

- Chemical & Pharmaceutical Labs Heating organic reactions, distillation.
- Research & Academia Solvent evaporation, reflux heating.
- Petroleum & Food Industry Sample analysis, quality testing.