

IMPORTANT SUPPLEMENTARY SAFETY INFORMATION

Introduction

Techne fluidised baths are safe and effective equipment when installed and operated correctly in accordance with the user manual. However, if used incorrectly they can pose a safety risk. Techne have designed all models of fluidised baths to protect operators from hazards but users should pay attention to the following points.



Caution

1. Please read the user manual before installation and use.
2. Techne fluidised baths can heat up to 600°C, 700°C or even 1100°C. High temperatures are dangerous and can cause serious burns to operators and ignite combustible material.
3. Use care and wear protective gloves to protect hands and protective glasses to protect eyes.
4. Do not put hot objects on or near combustible objects.
5. Do not operate the unit close to inflammable liquids or gases.
6. Do not place any liquid directly in the unit.
7. Always ensure a suitable, adequate ventilation system is used when equipment is in use.
8. Always install fireproof metal ducting with sufficient airflow.

Maintenance

1. When performing maintenance always disconnect from power supply and cool below 50°C.
2. Techne recommend regular cleaning of fluidised baths. Externally, wipe with a damp soapy cloth. No abrasive cleaners. Care should be taken to prevent any water entering the unit.
3. Regular internal and external inspection of extraction ducting is recommend to detect any damage and ensure the internals are clean. Any build-up of particles or debris discovered in the extraction ducting requires the ducting to be cleaned or replaced.
4. In fluidised baths used for polymer burn-off, please regularly inspect fluidising medium, remove any foreign debris and replace with clean fluidising medium as required.
5. Never top-up a hot fluidised bath with cold fluidising medium. Always cool below 50°C first.

Please note

1. Please ensure an adequate risk assessment is performed before use of a fluidised bath.
2. Please ensure the appropriate temperature is used for the application, always stay safely below the combustion temperature of any material or sample in a fluidised bath.
3. Fluidising airflow must be switched on before heating a fluidised bath, and left operational until the baths cools to below 50°C unless performing dead-bed calibration function.
4. Do not overfill fluidising media. The fill-level is 6 inches (15cm) below top surface when cold.
5. In fluidised baths used for polymer burn-off, always remove excess polymer from sample.
6. In applications where materials being treated produce acidic vapours during thermal decomposition, it is recommended a fume scrubber is utilised to ensure fume emission from the plant conforms to local regulations.
7. If you have any questions please contact technehelp@bibby-scientific.com.