

Hotbox Thermabed

Bench Heating System

The Hotbox Thermabed is a water-based system for root zone heating. Made to measure and designed to encourage germination and propagation, Thermabed is ideal for areas of 50m² or larger.

Optimum growing temperature

Precise thermostatic control from 6 to 38oC.

Quick and easy to install

On the ground or on benches.

Energy efficient

Inexpensive to run on gas, oil, solid fuel or bio-fuel.

Simple design

Low maintenance costs.



Technical Specifications

Thermabed is constructed from made to-measure expanded polystyrene panels containing channels into which a flexible water pipe is fitted. Water inlet and outlet pipes run side-by-side to achieve a uniform temperature over the entire surface. The system can be covered with a wide range of materials depending on the crop to be grown.



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A cost-effective solution for large growing areas

Hotbox Thermabed is an internationally-proven system for horticultural heating and cooling of large or small greenhouse propagation units and areas fitted with mobile or static benching. Thermabed is ideal for areas of 50 square metres or larger, up to several acres/hectares.

The Hotbox Thermabed system consists of moulded expanded polystyrene panels which fit together to form the required area. These panels have a channel which forms a continuous loop into which a flexible water pipe is fitted. The unique channel design is arranged so that the water inlet pipe and the water outlet pipe run side by side, thus providing a uniform temperature across the entire surface.

Thermabed is used for the propagation of all crops, including tomatoes and cucumbers in rockwool; carnations, chrysanthemums, saint paulias, all foliage plants, nursery stock and more.

Hotbox Thermabed maintains correct rooting temperatures economically for all crops, including geraniums and fuchsias; depending on the regional climate, no additional heating should be required. A simple application of cooled water into the pipework turns Thermabed into a root-zone cooling system.

Where controlled distribution of temperature is required, Hotbox can supply highly accurate thermostats with an electronic sensor, as well as aluminium foil, which is placed over the Thermabed surface. The aluminium spreads the heat evenly, ensuring no cold or hot spots occur. This material is supplied in 120cm-wide rolls and is 50% thicker than domestic foil.

Hotbox Thermabed can be covered with a wide range of materials depending upon the crop to be grown. Combinations include capillary matting for uniform watering, ground cover for drainage on lightweight benches, layers of peat or sand, concrete screed or gravel.

