

Sentinel R700 Sanitiser and Biocide

Removes existing biological contamination and prevents recontamination in heat pump systems

Sentinel R700 Sanitiser and Biocide provides protection for heat pump systems against bacterial and fungal contamination. Biological slimes and fungal growth in the system can cause blockages, unpleasant smells and metal corrosion, disrupting its smooth and efficient operation.

- **Fast-acting powerful sanitiser**
Rapidly breaks down existing biological contamination that causes blockages in low temperature systems.
- **Long-lasting broad spectrum biocide**
Prevents blockages, biologically-induced corrosion and foul odours in systems operating under 60°C.
- **Compatible with Sentinel R500 and R600**
Complements frost protection, corrosion and scale inhibition products to provide a complete water treatment programme.

Ideal for use in underfloor heating systems

Safe to use with all system metals

Leave in system water

Dose easily with dosing adaptor or dosing vessel



The Sentinel System

Lifetime protection for heating, cooling and hot water systems using the best practice process of...



CLEAN



PROTECT



MAINTAIN

Application

Sentinel R700 is a solution containing a stabilised biocide for use in ground source and air/water heat pump systems. These systems can suffer from problems caused by the growth of organisms such as bacteria and fungi. The problems caused are typically:

- Degradation of thermal fluids
- Blockages of the pipe work, manifolds, valves and heat exchangers
- Unpleasant smells
- Corrosion of heat exchangers and manifolds

These problems can severely disrupt the smooth and efficient operation of heat pump systems.

Dosing

Sentinel R700 is a solution containing a stabilised biocide designed to eliminate the problems caused by bacteria and fungi in heat pump systems. In new or cleaned systems add 1 litre of Sentinel R700 during the final fill of the system with water to prevent the development of bacteria and fungi and their associated problems. In larger systems, the product should be dosed at 1 litre per 300 litres of system volume. Circulate the system for 30 minutes to ensure complete distribution through the whole system.

When the system has been sanitised by the application of Sentinel R700, the system can be filled with Sentinel R500 (ground source) or Sentinel R600 (air/water) heat pump systems respectively. Sentinel R700 can also be used to sterilise flush water after system cleaning (e.g. with Sentinel R800) during procedures to replace old, degraded thermal fluids.

IMPORTANT - Sentinel R700 should not be mixed with any other type of cleaning product.

Physical properties

Appearance	Colourless liquid
Specific gravity	1.01
pH (concentrate)	2.0-5.0 (approx.)
Freezing point	0°C (store above 5°C)

Safety information

The information provided below enables compliance with the Control of Substances Hazardous to Health Regulations. A full Safety Data Sheet is available upon request. Use biocides safely. Always read the label.



Description	Sanitiser and biocide for heat pump systems An aqueous solution containing THPS biocide.
Health hazards	Warning! May cause an allergic skin reaction. Causes serious eye irritation.
Handling	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
Storage	Store in a cool, well ventilated area. Keep container tightly closed.
Spillage	Contain the spillage using bunding. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.
Fire/explosion risks	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. In combustion emits toxic fumes.
First Aid	Skin Exposure: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately unless stuck to skin. Wash immediately with plenty of soap and water. Eye Exposure: Bathe the eye with running water for 15 minutes. Consult a doctor. Ingestion: Wash out mouth with water. Consult a doctor.

The use of Sentinel water treatment is endorsed by the industry's major international manufacturing companies*



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