Product facts

Sentinel R700 Santiser 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 corrosion and scale inhibition products to provide a complete water treatment programme

Minimum 4 hour clean (Sanitiser)

Safe to use with all system metals

Leave in system water (Biocide)

Dose easily with dosing adapter or dosing vessel

The Sentinel System

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

CLEAN WITH APPROPRIATE CLEANER

PROTECT WITH X100 INHIBITOR

MAINTAIN WITH TEST KIT

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 or 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.

The problems can severely disrupt the smooth and efficient operation of the heat pump system.

Description and Use

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 systems add 1 litre of Sentinel R700 during the initial 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 system volume. Circulate the system for 30 minutes to ensure complete distribution through the whole system. 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. When the system has been sanitised by the application of Sentinel R700 the system can be filed with Sentinel R500 (ground source) or Sentinel R600 (air/water) heat pump systems respectively.

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

Physical properties

Appearance:	Clear colourless iquid
Specific gravity (20°C):	1.01 g/cm³
pH (concentrate):	2.0-5.0 (approx.)
Freezing point:	0°C (store above 5°C)

Safety precautions

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! - H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.	
Handling	Normal chemical handling.	
Storage	Store containers closed when not in use.	
Spillage	Protective clothing should be worn. Prevent neat product from entering in public sewers or the immediate environment. Ensure adequate ventilation to maintain air contaminants below exposure limits. Absorb onto inert material and dispose of according to Controlled Waste Regulations. Remove small spills with plenty of water.	
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:	Wash immediately with plenty of water. If irritation develops, seek medical attention.
	Eye Exposure:	Flush immediately with plenty of running water. Seek medical advice.
	Ingestion:	Rinse mouth with water. Immediately give 1-2 glasses of water, if victim is fully conscious. Seek medical advice.

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

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*Please refer to manufacturer manuals for individual product endorsements