

Sentinel R700

Sanitiser and Biocide for Heat Pump Systems

Features & Benefits

- Effective biocide & fungicide
- Prevents slime-forming bacteria
- Sanitises heat pump systems
- Easy and quick to dose
- Non-corrosive
- Long lasting protection
- Safe to handle
- No toxic breakdown products
- Test method available

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

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 filled with Sentinel R500 (ground source) or Sentinel R600 (air/water) heat pump systems respectively.

There is a Sentinel R700 Test Kit available which contains test strips for ensuring the correct concentration of Sentinel R700 and also dip slides which are used to check for bacteria.

Sentinel R700 is fully compatible with Sentinel R500 and R600

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

Chemical composition

- Appearance: Clear, colourless liquid
- Specific gravity: (20 °C) 1.009g/cm³

Materials Compatibility

Sentinel R700 does not attack the materials normally used in ground source and air/water heat pump systems.

Packaging

Sentinel R700 is supplied in 1 litre non-returnable plastic containers

Safety Procedures

The information provided overleaf enables compliance with the Control of Substances Hazardous to Health Regulations. A Safety Data Sheet is available on request.

Sentinel R700

Sanitiser and biocide for Heat Pump systems	An aqueous solution containing stabilised oxidising agent
Health Hazards	Not considered hazardous to health. The product is not classified as dangerous for the environment.
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	Keep away from heat. Avoid contact with strong oxidisers. No known hazardous decomposition products.
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 attention. Ingestion : Rinse mouth with water. Immediately give 1-2 glasses of water, if victim is fully conscious. Seek medical attention.