

## Sentinel R700 Test Kit

### For monitoring the correct use of Sentinel R700

#### Introduction

The Sentinel R700 Test Kit is designed to ensure the correct use of Sentinel R700 in Ground Source or Air Source Heat Pump systems. These systems may suffer from problems caused by the growth of bacteria and fungi. Typically, the efficient operation of a system may be disrupted by slimes and organic matter causing blockages, unpleasant smells and corrosion. The correct use of Sentinel R700 will eradicate these problems by removing any existing contamination and by preventing its subsequent development.

Use of the Sentinel R700 Test Kit will establish the correct level of Sentinel R700 and confirm that bacteria have been eliminated from the system during commissioning procedure for new systems, ongoing service maintenance or the cleaning of fouled systems. The System Service Log sheet can be printed on which to maintain a record of results and actions taken at times of the annual service visit.



#### Specification

The Sentinel R700 Test Kit is supplied in a compact, durable plastic case and contains the following items:

- Sentinel R700 Test Strips
- Dipslides
- Sample Bottle

The Sentinel R700 Test Kit is supplied with a CD that contains the user instructions, together with a printable System Service Log.

#### Procedures

For full procedures in the use of Sentinel R700 and when to use the Sentinel R700 Test kit, refer to the Technical; Information sheet entitled "Sentinel R700 Sanitiser & Biocide for Heat Pump Systems - Application Guidelines" which is available at [www.sentinel-solutions.net](http://www.sentinel-solutions.net) or available from Sentinel Performance Solutions Ltd.

In summary the Sentinel R700 Test Kit should be used during the following operations:

##### 1) Commissioning of New Systems

When commissioning new heat pump systems it is important to ensure its long-term smooth and efficient operation by adding Sentinel R700 during the final filling of the system to prevent growth of bacteria and fungi. The Sentinel R700 Test Kit allows you to check that correct concentration of Sentinel R700 has been added and the desired result of a bacteria free system has been achieved prior to putting the system into service.

##### 2) Cleaning of Fouled Systems

If heat pump systems are not properly commissioned and maintained, blockages, unpleasant smells and corrosion can subsequently occur due to the uncontrolled growth of bacteria. A simple, effective sanitising procedure using Sentinel R700 has been developed to remove undesirable bacteria and fungi and it is essential to use the Sentinel R700 Test Kit to monitor and ensure correct levels of Sentinel R700 and resultant system sterilisation.

##### 3) Annual Service

To maintain the heat pump system in a satisfactory condition it is recommended that an annual system check be made using the R700 Test Kit. Levels of Sentinel R700 can be checked and adjusted and confirmation obtained that bacteria has not been allowed to proliferate.