# (GB) Fernox Protector Test Kit instructions

This test is used to check that the correct concentration of **Fernox Protector** has been added in a system. This is done by measuring the difference in alkalinity between mains water and treated system water. The optimum figure quoted is when the system is dosed at the recommended strength. Higher values are not detrimental and are preferable to under-dosing.

**Shake reagent bottle before use.**

1. Fill the 30 ml graduated test vessel to the 10 ml mark with **mains water**.
2. Holding the **Protector** reagent bottle exactly vertically upside down, add one drop (the solution should turn blue). If the solution does not turn blue but remains clear or turns orange immediately, count the number of drops as 1 and move to step 4.
3. Continue to add reagent dropwise, mixing between each addition. Count the number of drops required to turn the solution orange/red.
4. Repeat steps 1 to 3 above with a sample of the **system water**.
5. Deduct the number of drops of mains water from the number of drops of system water to give the difference.
6. If the difference is less than the minimum given below, add additional **Fernox Protector**.

| Product | Recommended dose/100 L | No. of drops difference* |
|---|---|---|
| **Protector MB-1** | 4 litres | 9 minimum |
| **Protector F1** | 500ml | 9 minimum |
| | 265ml Express | 9 minimum |
| | 290ml Cartridge | 9 minimum |
| **Filter Fluid+ Protector** | 500ml | 10 minimum |
| | 400ml Express | 10 minimum |
| **HVAC Protector F1** | 500ml | 9 minimum |
| **FC1 Inhibitor** | 1 litre | 9 minimum |
| **Antifreeze Protector Alphi-11** | 25 litres (-11°C) | 10 minimum |
| | 30 litres (-15°C) | 11 minimum |
| | 35 litres (-18°C) | 13 minimum |
| | 40 litres (-22°C) | 15 minimum |

*Difference between system water and mains water (number of drops used in system water minus number of drops used in mains water)