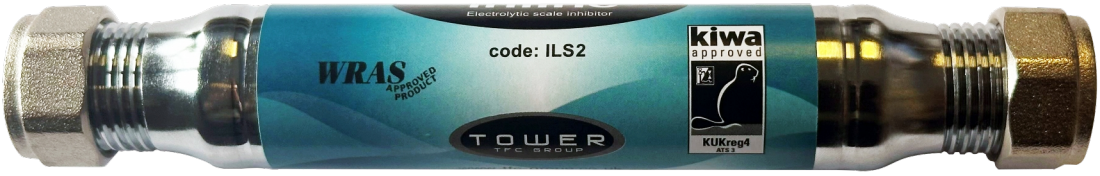

Tower ILS2 Electrolytic Scale Inhibitor Installation and Maintenance Guide

The **Tower ILS2** electrolytic scale inhibitor is designed to prevent limescale buildup in plumbing systems by altering the structure of the minerals present in water. This guide will provide detailed instructions on how to install, maintain, and optimise the performance of the **Tower ILS2** to ensure efficient operation and compliance with water regulations.

1. Installation Positioning

Choosing the correct installation position for the **Tower ILS2** is essential to ensure both accessibility and functionality. Here are the positioning guidelines:

- **Location:** Install the unit in a section of the pipe that has enough space to fit the **Tower ILS2** securely. Make sure the location is accessible for future maintenance and replacement if necessary.
- **Orientation:** The **Tower ILS2** can be installed in either a horizontal or vertical orientation, depending on the available space and pipe layout. Its performance is unaffected by the orientation.
- **Accessibility:** Ensure the position allows easy access for regular maintenance and when the unit requires replacement after its service life.

2. Pipe Connection and Fitting

To ensure a secure and leak-free connection when installing the **Tower ILS2**, follow these detailed steps:

- **Cutting the Pipe:** Use a pipe cutter to make a clean and square cut in the pipe at the desired location. A clean cut is crucial for ensuring a proper seal when the fittings are tightened.
- **Fitting the Device:** After cutting the pipe, insert the **Tower ILS2** and use a spanner to securely tighten the fittings at both ends. Be cautious not to overnight, as this could damage the threads and cause leaks.
- **Back-Flow Prevention:** To comply with safety standards and prevent contamination, install a back-flow prevention device at the connection point. This ensures that water flows only in the intended direction.

3. Managing the Water Supply

Properly managing the water supply before, during, and after installation ensures a smooth and leak-free process:

- **Turn Off Water Supply:** Before cutting the pipe or making any connections, turn off the water supply to the section where the **Tower ILS2** will be installed.
- **Reconnection:** Once the installation is complete, turn the water supply back on gradually. Check all fittings and connections to ensure that there are no leaks.
- **Leak Testing:** After installation, run water through the system and carefully inspect the unit and the surrounding pipe for any signs of leakage. Tighten fittings as necessary if any leaks are detected.

4. Compliance with Local Regulations

To ensure proper installation and operation, it's important that the **Tower ILS2** is installed in compliance with local water regulations and standards:

- **Local Water Regulations:** Be sure to adhere to any applicable water regulations in your area to ensure the safe and legal operation of the **Tower ILS2**.
- **WRAS Compliance:** The installation must also meet Water Regulations Advisory Scheme (WRAS) standards, which ensure that water systems are designed and installed in a way that prevents contamination and ensures safety.

5. How the Tower ILS2 Electrolytic Scale Inhibitor Works

The **Tower ILS2** operates by altering the molecular structure of limescale-forming minerals as water passes through the device:

- **Crystal Structure Change:** The inhibitor alters the mineral content in the water, causing limescale to form as non-adhering crystals. This modified structure prevents the minerals from sticking to the internal surfaces of pipes and appliances.
- **System Protection:** By reducing limescale buildup, the **Tower ILS2** helps to protect entire plumbing systems, as well as individual appliances such as water heaters, boilers, dishwashers, and washing machines, from the damaging effects of hard water.

6. Suitable Applications

The **Tower ILS2** is versatile and can be used in a variety of applications to protect your plumbing system and appliances from the effects of hard water:

- **Whole-House Protection:** For comprehensive coverage, the **Tower ILS2** can be installed to protect the entire plumbing system, ensuring that all outlets and appliances benefit from the reduction in limescale.
- **Appliance-Specific Protection:** Alternatively, the scale inhibitor can be installed near individual appliances (such as water heaters or washing machines) to protect these devices specifically and improve their lifespan and efficiency.

7. Device Lifespan and Maintenance

The longevity of the **Tower ILS2** depends on factors such as water usage and the hardness of the water in your area. Proper maintenance can maximize the unit's lifespan and effectiveness:

- **Lifespan:** The **Tower ILS2** typically lasts between 5 to 10 years, depending on water hardness and usage patterns. Regular inspections can help determine when it is time to replace the unit.
- **Maintenance:** While the **Tower ILS2** requires minimal maintenance, it’s important to periodically inspect the unit to ensure it is functioning properly. If limescale buildup becomes noticeable, or if appliances show signs of inefficiency, it may be time to replace the device.

By following these installation and maintenance instructions, you can ensure that your **Tower ILS2 Electrolytic Scale Inhibitor** functions efficiently to reduce limescale buildup and extend the life of your plumbing system and household appliances. Always adhere to local water regulations and manufacturer guidelines for optimal performance and safety.