



## Water Treatment



- **Pipework chemical cleaning & dosing to BSRIA AG1/2001**
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- **HWS & CWS tank and services sterilization to BS 6700**
- **Mains water line sterilization to BS 6700**
- **Cooling towers to BS 6700**
- **Water sampling & analysis**

*KES Water Treatment* works hand-in-hand with our commissioning service and provides pre-commissioning cleaning of LPHW, CHW and steam lines as well as main line and domestic water system sterilizations.



King Environmental Services Limited

Documentation | TAB Commissioning | Water Treatment | Validation | Heat Load Testing

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# Water Treatment



## Mains water line sterilization to BS 6700

Where new sections of mains water pipework have been installed on a system it is a requirement to ensure that the new lines are flushed and sterilized to remove dirt / debris and also prevents cross bacterial contamination.

- Removes any construction dirt or debris which may block user points
- Prevents cross bacterial contamination from new line to existing mains line
- Certification required for connection / re-connection of mains water line

## Cooling towers to BS 6700

Cooling towers are the main source for legionella bacteria. In order to operate these systems safely, it is recommended that sampling is performed on a monthly basis and that sumps and towers are cleaned and sterilized on an annual or bi-annual basis.

- Identifies on a monthly basis if bacterial counts are increasing
- Prevents build up of dirt in sump
- Sterilizes entire cooling tower and associated pipework preventing bacterial build-up
- All KES water treatment staff are confined space and breathing apparatus trained

## Water sampling & analysis

KES have the latest up to date on site water sampling equipment for heating, cooling and domestic hot and cold water systems. Where laboratory analysis is required, KES use the services of an accredited laboratory to perform these tests on our behalf.

- Heating system water analysis
- Cooling water system analysis
- Domestic hot & cold water analysis
- Cooling tower & mains water analysis

## Pipework chemical cleaning and dosing to BSRIA AG1/2001

The KES system for flushing involves a site visit prior to works being performed to identify fill and drain points, water supply and discharge points. The procedure is then carried out in the following manner and in line with detailed pre-approved method statements:

- Dynamically flush system with clean mains water
- Chemically clean system
- Final dosing with treatment chemicals

## Portable flushing rigs

Due to installation / programme requirements it may not be possible to flush entire pipework systems at the same time. KES have a number of portable flushing rigs to facilitate this on small and large bore pipework.

- Sectional flushing of system made possible with minor system modifications
- Electrically drive to reduce noise levels with local isolation
- All fill and drain points already fitted to rig configuration
- Range of portable flushing rigs to suit most applications

## HWS & CWS tank and services sterilization to BS 6700

This is required on all new tanks & lines and is recommended on an annual basis. It involves the cleaning of the interior of tanks with an aquavac, cloths, etc and the addition of Sodium Hypochlorite / Aquasil to perform sterilization of tanks and end user points. KES generate detailed method statements and certification for the activity.

- Removes any dirt or debris from the storage tank
- Recommended on all new systems and on annual basis thereafter
- Reduces risk of bacterial contamination
- All KES water treatment staff are confined space and breathing apparatus trained



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