

A Total Solutions Provider



**ENVIRONMENTAL  
WATER SYSTEMS (UK)**



# Pure Water Solutions and Services for the Healthcare Market



# The Importance of Water

Within any hospital, water is a key factor to the smooth running of the site, with its extensive use:

- In the decontamination of equipment used within surgical processes
- Pre treatment to pure steam generation
- Boiler house feed water

## Pure Water Solutions for healthcare

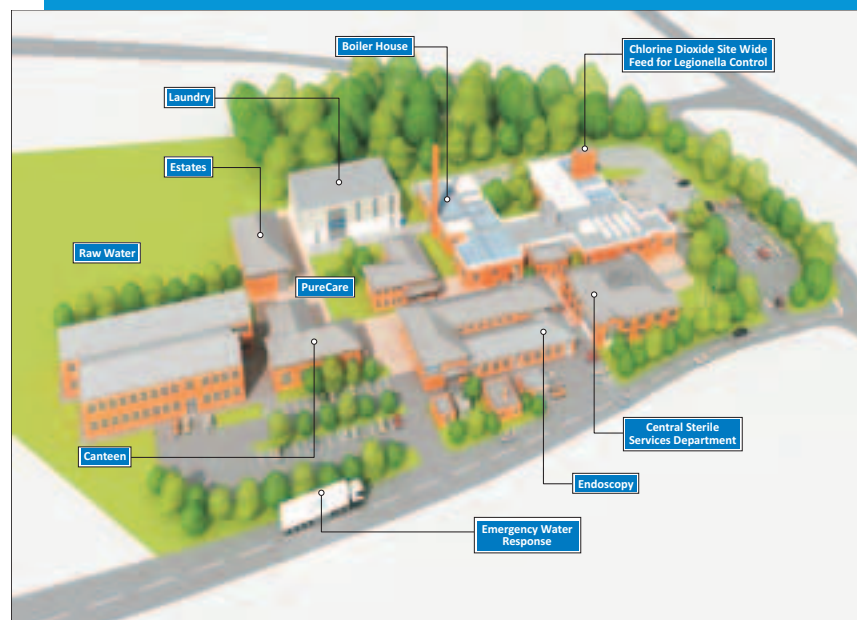
At Environmental Water Systems (UK) our vision is straight forward, to offer our clients total solutions that deliver consistently reliable performance, at the best lifecycle cost for the systems and services available. Using sophisticated technology backed by expertise and service, our aim is to be the leading water solutions provider for the healthcare market.

EWS (UK) have been servicing the healthcare market for over 20 years, specialising in the [design, manufacture, supply and service](#) of water purification, water recovery and process filtration systems. With over 200 healthcare customers, we understand the pressures on healthcare sites when it comes to water treatment – from financial, to the need to meet current legislation. We have the expertise and experience to deliver [compliant, high quality, reliable](#) water purification systems that:

- Meet both service critical and ongoing water requirements across the whole site
- Ensure any required water safety standards are unequivocally met
- Minimize overall water costs

## EWS (UK) Healthcare Water Treatment Solutions will help you:

- **Sterilise / decontaminate specialist areas of equipment**
- **Guarantee water quality**
- **Meet regulatory compliance**
- **Guarantee uninterrupted service**
- **Reduce operating costs**
- **Reduce the number of cancelled patient procedures**



# Decontamination for Endoscopy

Disinfection and sterilisation are vital in today's hospital environment.

Due to the design of endoscopes, the use of automatic endoscope reprocessors (AER's) is vital in the processing of them. Within the cleaning process RO water (at ambient temperature) is a key element in combating the risk by preventing any deposits forming during the drying process.

EWS have designed pioneering RO equipment to help combat the issues faced by hospitals, and now provide a range of purpose built RO systems for feeding AER's that benefit from:

- Automatic, out of hours thermal disinfection programs
- Automatic, out of hours chemical disinfection programs
- Compact design that includes the necessary break tank and pre-filters
- Small footprint
- Easy change consumables
- 24/7 contract maintenance cover
- HMI graphical touch screen display with recordable data

The size of an RO plant is dictated by the number and type of AER's used. Many hospitals choose to use duplex RO systems, helping eliminate the risk of interruption/down time associated with routine maintenance.



# Decontamination for Sterile Services Departments

Within any sterile services department there are two essential pieces of equipment - a washer disinfector and an autoclave (porus load steriliser) to process the re-usable surgical instrument sets. This washing/sterilisation of the instrument sets are vital in helping prevent cross contamination of patients who undergo any kind of surgery at hospital.

In both pieces of equipment RO water is a key element in the cleaning process.

- The washer disinfector requires RO water to provide the final rinse during the cycle preventing any deposits forming during the drying process.
- The steriliser require RO water for the generation of “clean steam” to meet current legislation.

In order to minimise process cycle times this RO water is required at elevated temperatures between 60° - 70°C.

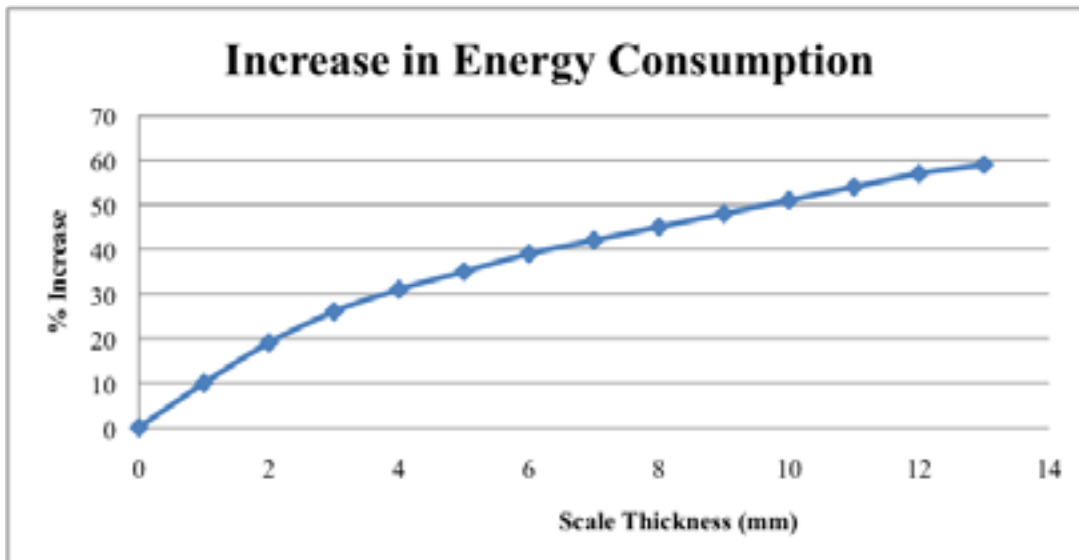
EWS have a range of RO systems capable of feeding either single or multiple washer/sterilizers that benefit from:

- **Point of use temperature control for reducing cycle times**
- **(Out of hours) Periodic thermal disinfection to 85°C - 90°C for maximum bacterial control**
- **Small plant footprint**
- **Easy change consumables**
- **24/7 contract maintenance cover**
- **HMI graphical touch screen display with recordable data**



# Water Treatment and Purification for Facilities and Estates Departments

Hospitals use large amounts of water in their day to day running. With large boilers heating the water, the production of steam and subsequent scaling can lead to significant boiler inefficiencies and potentially catastrophic failure. Hospital water supplies are typically softened using ion exchange resins to remove hardness salts associated with scale formation, and avoid subsequent increases in energy costs as shown below.



Depending on water quality, boilers also need regular blow downs to remove any remaining build up of solids in the system. By supplying RO systems the need for regular blow downs can and has been significantly reduced [leading to reductions in energy, water and chemical costs](#).

We work with hospital estates and facilities departments to minimise costs and risks involved with boilers and on site water systems. By offering a wide range of ion exchange softeners and RO systems, we are able to provide solutions tailored to each site. This helps [reduce the risk of scaling, the need for blow downs, ensures boilers continuous operation and facilitate considerable energy savings for the hospital](#).



# 21st Century High End Filtration and Water Treatment Consumables

We supply a full range of consumables for all healthcare applications, including third party retro fit packs. When time and budgets are tight, cost effective, reliable suppliers are essential. Our one stop shop ensures customers have quick, easy access to consumables at a good market price.

We supply:

- Cartridge Filters
- RO/UF Membranes
- Pumps
- Valves
- UV Lamps
- Chemicals for Sanitisation
- Ion Exchange Resins
- Vent Filters
- Carbon Pre Filters
- Cylinder Exchange

Critical Quality Control

Every product supplied is quality control checked, tested and guaranteed to international standards giving the peace of mind and assurance you need, accredited to ISO 9001, ensures the highest quality and standards are consistently maintained.

Benefits of the Environmental Water Systems (UK) consumables range:

- Comprehensive Range
- One Supplier
- Value For Money
- Next Day Delivery
- Long Service Life
- Quality Assured
- Technical Assistance
- Local Support and Service
- European Manufacturing Centre



# PureCare Service – Help the way it should be; uncomplicated, fast, competent

At EWS (UK) we understand that your water purification system needs to be problem-free and working at its peak performance. Choosing the right Service and maintenance agreement is critical to ensuring maximum uptime.

Our in-house fully trained engineers, located nationwide offering around the clock support, ensure our high standards are always maintained. Our response time means onsite response, with telephone support available 24/7. Our engineers are equipped with the latest technology giving customers instant information providing faster access to recommendations, spare part supply, support and billing data. Replicated to the web, customers can log on to a personalised web page to look up historic information.

Our range of PureCare service and maintenance agreements give our customers flexibility to choose the level of support required depending on application, operation and budgetary requirements, whether it's EWS (UK) plant or from another supplier.

## PureCare Standard

Planned Service and Preventative Maintenance to keep your system running efficiently – call out is usually onsite within 48 hours.

## PureCare Priority Response

As PureCare Standard, but the onsite call out response time is guaranteed within 24 hours.

## PureCare Priority Response Plus

As PureCare Standard, but the onsite call out response time is guaranteed with a choice of 8 or 24 hours. The annual consumable pack is included with reduced labour call out costs.

## PureCare Ultra

As PureCare Standard, but the onsite call out response time can be a guaranteed choice of 4, 8 or 24 hours. The annual consumable pack is included, along with all parts and unlimited number of call outs.

## Optimising Existing Systems - Upgrades, Overhauls and Refurbishment -

At EWS, we constantly work to improve our process technologies to make sure they fulfil our customers needs for optimal efficiency, product quality, and safety regulations. But changes to legislation, or changes to internal requirements or new technologies can mean your existing plant is no longer at its optimum or achieving the desired results.

It is often the most cost effective solution to upgrade existing equipment and processes to improve production and meet demand. Our in-house, experienced engineers, can upgrade, refurbish, or overhaul your existing system and implement new technologies quickly and efficiently.

## Our services include, but are not limited to:

- Plant overhaul & modernisation
- Process optimization
- Replacement of obsolete equipment
- Upgrade to current standards, legislation and safety standards
- Control System and Instrument Upgrades
- Resin Replacements and Re-beds
- Plant relocation and re-commissioning

## Benefits:

- Improve Performance
- Reduce Downtime
- Cost Efficient
- Enhanced plant operation and efficiency
- Increased Capacity



# The Envirogen Group: Innovation, Engineering and Service for the 21st Century



Environmental Water Systems (UK) is a division of the Envirogen Group.

At the Envirogen Group of companies, our vision is straightforward – to be the industry leading water, waste water and process filtration provider using sophisticated technology backed by expertise and service.

It is our goal to help our customers solve complex challenges related to water availability and quality, to increase productivity, reduce costs and help meet environmental regulations and sustainability targets, through innovative solutions that deliver consistently reliable performance at the best lifecycle cost.

The Envirogen Group brings expertise and knowledge through specialist business divisions across the globe, specialising in key markets, applications and products. With offices and manufacturing facilities in the UK, Italy and USA, and a regionally based team of engineers, Envirogen is well placed to respond to the needs of its customers.



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EWS (UK) is a division of  
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