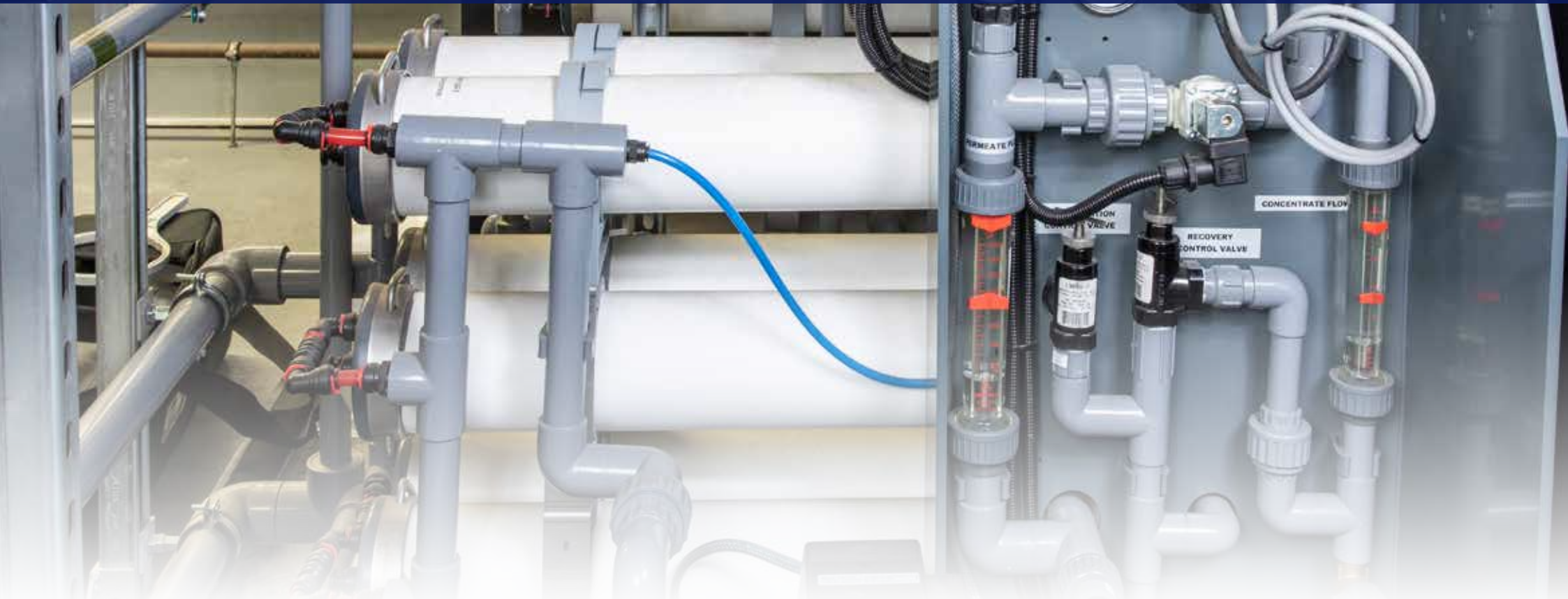




purite hot sanitisation upgrade

is key to expansion at Edinburgh Royal Infirmary



purite hot sanitisation upgrade

is key to expansion at Edinburgh Royal Infirmary

improving the quality and scope of services

A new Purite hot sanitisation system is playing an important role in an ongoing modernisation and expansion programme at the Edinburgh Royal Infirmary. Designed to extend the capability of an existing Purite cold reverse osmosis water purification plant, the upgrade is allowing the centralised Hospital Sterilisation Decontamination Unit (HSDU) to improve the quality and scope of its services as demand grows from across the NHS Lothian region.

The HSDU at Edinburgh Royal Infirmary provides a 24/7 centralised decontamination and sterilisation service to hospitals and surgeries. NHS Lothian is the UK's second largest Health Authority, with 21 hospitals, 126 GP practices, 180 community pharmacies, 173 dental practices and 112 ophthalmic practices.

▶ **The HSDU provides a vital service that clinicians and patients rely on every day**



purite hot sanitisation upgrade

is key to expansion at Edinburgh Royal Infirmary

According to the Infirmary's facilities manager, Angus Maclsaac, "The HSDU provides a vital service that clinicians and patients rely on every day. Any disruption to our decontamination or sterilisation services could result in delayed or cancelled operations." To improve still further the resilience and capability of the services provided by the HDSU, NHS Lothian has embarked on a £2 million upgrade to its facilities, with investment in a new water purification plant, washer disinfectors, autoclaves steam generation systems and associated services.

A key element in this programme has been the upgrade of an existing Purite water purification plant. This passes mains water through a series of 20 micron particulate filters, via an activated carbon filter to remove free Chlorine, then through 5 micron filters into a duplex reverse osmosis (RO) system.

The RO system operates on a duty/standby basis, with six 500 litre membranes being configured to ensure a consistent flow of permeate at up to 1,500 litres/hour. These feed six Steris single and multi-chamber washer disinfectors with a combined demand of 848 litres/hour; the additional capacity is intended to give a safe margin of operation to meet peak flow demands.



purite hot sanitisation upgrade

is key to expansion at Edinburgh Royal Infirmary



Throughout, the system has been designed to minimise both power and water consumption with, for example, the use of variable speed pumps and high efficiency membrane modules.

The new upgrade involves the addition of a 1,200l insulated stainless steel purified water tank with integral heaters, an in-line UV disinfection unit, duplex distribution pumps, 0.2 micron filters, control and mimic panels and 120m of orbitally welded stainless steel ring-main pipework.

The existing RO system feeds directly into the new storage tank, with the purified water being heated to 65°C for the washer disinfectors, with the capability of being heated to 90°C for regular disinfection of the ring-main.

Angus Maclsaac explains, "The upgrade ensures that we will continue to be compliant with the latest Health Technical Memoranda (HTMs) procedures. It also gives us additional capacity to meet future demand. The quality of the new Purite equipment is exceptional, while the installation engineers did a great job in ensuring that everything was commissioned successfully, on time and without any difficulties."

purite hot sanitisation upgrade

is key to expansion at Edinburgh Royal Infirmary



One of the benefits of the new heated system is that it improves processing times for the washer disinfectors. "As we now have a supply of purified water at 65°C – previously it was at around 10°C – there is a significant reduction in warm-up time before each washer disinfectant can come on-stream," says Angus.

He adds, "We've worked with the Purite team for many years and know that we can rely on them for routine maintenance, 24/7 technical support and, on the rare occasion it's required, for rapid on-site emergency call-out."

► **The Purite installation engineers did a great job in ensuring that everything was commissioned successfully, on time and without any difficulties**

Contact



Contact

[SUEZ Water Purification Systems Ltd trading as Purite](#)

Bandet Way, Thame, Oxfordshire
OX9 3SJ, United Kingdom

T +44(0)1844 217141

E mail.waterpurificationsystems.uk@suez.com

W purite.com