

Case Study

Maintaining safe and reliable water systems in a local hospice





BACKGROUND

In hospice environments, maintaining safe and reliable water systems takes on special significance. These facilities must create a home-like environment while maintaining healthcare-grade safety standards for residents who are often immunocompromised.

A regional hospice in the Northwest faced significant challenges with their water infrastructure due to hard water issues. The existing system was experiencing severe limescale buildup, leading to blocked outlets and failing boilers. These issues were impacting the facility's daily operations and threatening the reliability of critical water systems.



THE CHALLENGE

The project required implementation of a water softening solution that would effectively address the limescale problems while meeting stringent drinking water specifications. The system needed to be appropriate for a healthcare setting where water quality is paramount for patient care and facility operations.





THE SOLUTION

TEC designed and installed a comprehensive water treatment system centred around a 14 x 65 Duplex Water Softener with integrated filtration in the plantroom. The installation included several critical components:

- Isolation valves for system maintenance
- Non-return valve to prevent backflow
- Pressure gauges for system monitoring
- Sample test points before and after treatment
- Mixing valve to regulate pH and sodium levels for drinking water compliance

The entire project was managed and executed solely by TEC's in-house team, from initial design through to final commissioning.



THE OUTCOME

The new water softening system has successfully resolved the hospice's hard water issues, protecting their infrastructure from limescale damage while maintaining drinking water quality standards. This project demonstrates TEC's capability to deliver complete water treatment solutions, managing all aspects of complex installations within sensitive healthcare environments.



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