



Case Study

BWT and Brinsbury College

Heating water protection for schools

PROJECT INFORMATION

Customer: Brinsbury College

Project Summary:

Heating water protection for a country-side campus that operates a thriving Animal Care facility

Products and Services:

Description:

BWT AQA therm MOVE Power for improved efficiency and water quality

The situation

Brinsbury College had been relying on an older reverse osmosis (RO) system to produce demineralized water for its aquatic and reptile enclosures. However, staff were encountering several ongoing challenges that were impacting both efficiency and animal care:

- **Slow refill rate:** The existing RO unit produced only 30 litres per hour, making it difficult to keep the holding tanks topped up, particularly during busy periods or when multiple enclosures required water simultaneously.
- **Inefficiency:** The outdated system required significant staff time to monitor and manage, consuming resources that could be better spent on animal care and other tasks.
- **Frequent filter replacement:** Filters had to be changed approximately every three weeks, leading to regular downtime, increased maintenance effort, and higher operating costs.
- **Inconsistent water quality:** The combination of slow production and aging membranes caused fluctuations in water purity, which affected tank cleanliness and could potentially compromise the health and welfare of the animals.

As a result, Brinsbury College needed a more efficient, reliable and cost-effective solution to ensure high-quality water for its diverse range of species.

BWT was invited to assess the college's existing setup and propose an upgrade. After reviewing Brinsbury College's needs, the species requirements, and daily water usage, BWT recommended the installation of the BWT Move Power system.

Why Move Power?

- **High flow rate:** Capable of filling the holding tanks within one hour, dramatically improving operational efficiency and reducing staff time spent on water management.
- **Superior demineralized water:** Delivers consistent, high-quality output suitable for sensitive aquatic and reptile environments, helping maintain tank cleanliness and animal welfare.
- **Extended lifespan:** Produces up to 80,000 litres before membranes require replacement, overcoming the college's previous issues with frequent filter changes and downtime.

Key Benefits for the Customer

- Providing a flexible service
- Prompt response to client specific requirements
- Dedicated team to understand the needs of the customer

Title of Case Study: BWT and Brinsbury College

Acknowledgements:

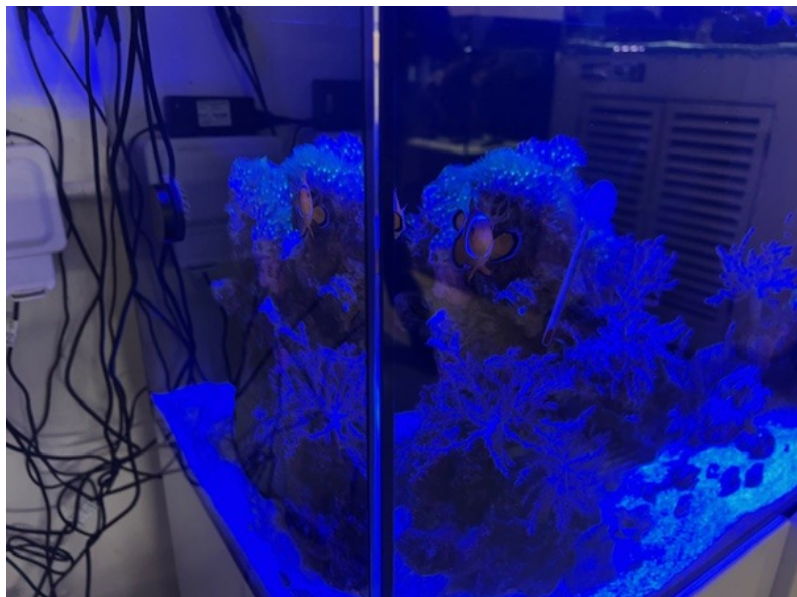
Thank you to Brinsbury College for providing feedback on BWT's service and products.

The solution

To address the college's water challenges, BWT removed the legacy RO unit and installed the Move Power system with minimal disruption to the animal care routine. Staff received on-site guidance on operation and maintenance, ensuring a smooth transition.

Since installation, Brinsbury College has seen immediate and measurable benefits. Water clarity and quality have improved significantly, supporting healthier aquatic life. The team no longer experiences downtime for frequent filter replacements, while longer membrane life and improved system efficiency have reduced overall maintenance costs. The BWT Move Power's mobile design allows demineralised water to be easily delivered to multiple locations across the Animal Care facility, also giving staff greater flexibility when maintaining different enclosures.

In addition, rapid refill rates allow staff to spend more time focusing on animal care rather than managing equipment, creating a more efficient and effective environment for both students and animals.



Brinsbury Collge Animal Care Facility
(Image taken by Brinsbury College representatives)