

State-of-the-art water purification for world-class pathology laboratories (*Scientific*) | Case Study

The Client

A leading provider of pathology and diagnostic services was investing in a purpose-built facility that housed a connected suite of laboratories, spanning more than 100,000 square feet, and spread across 11 floors with five split-level basements.



The benefit

- Fully configurable solution delivering water purity of Type I+/I.
- RNase- and DNase-free water for molecular biology applications.
- Particle- and bacteria-free water for sensitive analytical techniques.
- Compliant with ISO 3696, ASTM D1193-06, CLSI-CLRW, and the US, Japanese and European Pharmacopoeias.

The Client's Needs

As a new building, the facility was a blank canvas for the design and implementation of an innovative water purification solution that complemented the state-of-the-art design of the laboratory. The chosen water purification system needed to provide water ranging from Type III (ring main system) to Type I / I+ (PURELAB® Chorus), suitable for general laboratory use and also for more demanding applications, such as molecular biology and LC-MS.



The Solution

Six PURELAB Chorus 1 Life Sciences and two PURELAB Chorus 1 Analytical systems with integrated flexible Halo dispensers were installed at various points throughout the building, providing ultrapure 18.2 MΩ.cm water to meet the client's need for DNase- and RNase-free for molecular biology applications, and particle- and bacteria-free sensitive analytical techniques, such as ICP- and LC-MS. To maintain a neat, spacious appearance, each set-up was configured as a bench top system to meet the individual laboratory's requirements, each with an integrated Halo dispenser and remote Halo dispensing where needed. Each system offered USB data capture and volumetric dispensing, and the stylish modern design was aesthetically pleasing in this contemporary laboratory environment. For complete peace of mind, the client selected a validation package and three-year service contract, along with an extended 36-month warranty.

Results

The PURELAB Chorus 1 systems were installed in a neat and tidy manner that complemented the appearance of the laboratories. These space-saving water purification modules fully met the client's specification, delivering the ultrapure water required for its pathology and diagnostic services.