

CASE STUDY

ELGA helps immune-serology laboratories maximize uptime

NeoDIN Medical Institute
Seoul, South Korea

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Immune-serology laboratories process large numbers of samples and require consistent Type 1 Ultrapure water delivered to the connected analyzers. Following negative experiences with the previous supplier, ELGA were able to step in and offer the service and solution required with the MEDICA® Pro 120.



Background

NeoDIN Medical Institute in South Korea is a medical science laboratory which provides laboratory test services to clinics, hospitals and research centers nationwide. Their chemistry and immune-serology laboratories process between 7000 and 8000 samples per day sent by small and medium-sized clinics across Korea.

Serology is the examination of the blood to determine the presence of antibodies in the serum which typically forms in response to an infection against a particular microorganism. Immune-serology laboratories require Type 1 Ultrapure water to ensure no contamination of samples occurs which may alter the results.

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Type 1 Ultrapure water ensures analyzer operates reliably

With the large number of patient samples processed daily, it was vital that the analyzers at NeoDIN's facilities operate rapidly, reliably and with maximum uptime.

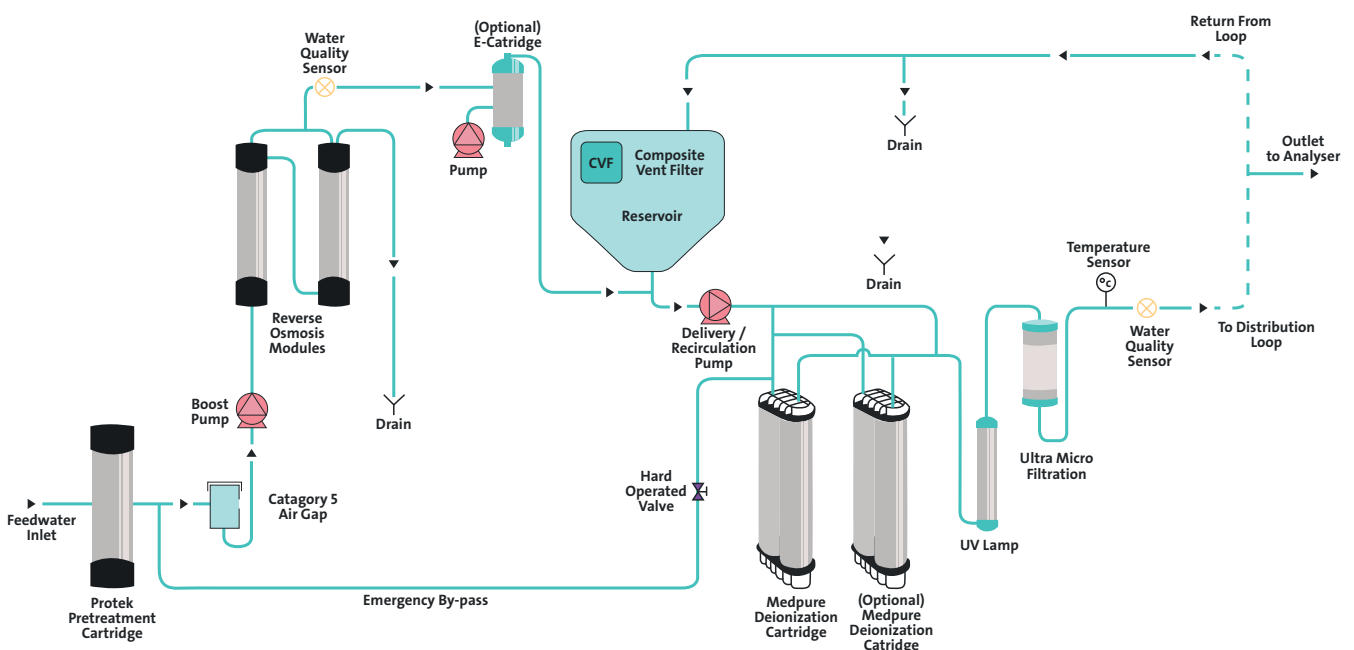
The number of analyzers required by the department increased, relative to the growing demands of tests, with the analyzers requiring around 100 liters per hour of bacteria free high purity water.

Issues with service and performance required NeoDIN to identify a new partner to meet the high performance and service standards required.

ELGA assessed the customer needs and worked with a leading global clinical diagnostics analyzer company to provide a solution for the client.

An important factor in the reliability of the analyzers is the quality of water that is required, and so the total availability and the consistent water quality meeting Clinical Laboratory Reagent Water (CLRW) standards had to be met.

Process Flow for MEDICA® Pro



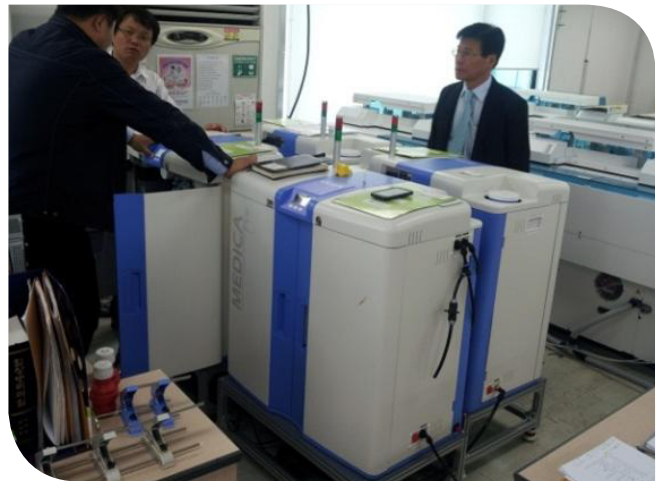
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The Solution

Four MEDICA® Pro 120 water purification systems were installed which were each connected to analyzers to provide the highest water purity meeting CLSI Type I clinical laboratory reagent water (CLRW) quality standards.

The units were centralized in one specific area and configured to provide a remote sound and visual alarm system. This system could alert the maintenance personnel across the large laboratory testing area in the event of a system failure or any maintenance requirements.

The MEDICA® PRO 120 water purification systems combine reverse osmosis, ion exchange, UV and ultrafiltration and deliver up to 120 liters of bacteria free, high purity water per hour, meeting Type 1 CLSI and CLRW quality standards, and meeting the initial system requirements of the laboratory. Each of the MEDICA® units can supply sufficient water for the analyzers while being connected to each other for loop sanitization and servicing, without affecting and interrupting any operations.



Centralized units with visual alert system



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Conclusion

The installation of the systems was achieved with minimum disruption to the staff and users of the laboratory. In addition, an increase in laboratory space was possible due to the compact solution provided leading to a more efficient running process.

Following the installation, ELGA's excellent service and after-care cemented them as a reliable partner for clinical analyzer installations.

ELGA successfully completed the installation of a further four MEDICA® Pro 120 units, ensuring the consistent delivery of high quality purified water to meet the demands of a growing immune-serology laboratory. The water quality is maintained at all times due to recirculation capabilities of the units, with the overall maintenance time of the staff reduced to focus on sample analysis. Overall, the installation was completed on time and with the satisfaction and approval of the NeoDIN staff.

Key Benefits:

- Reduced Maintenance
- Increased Reliability
- Visual remote alert system
- Time saving



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