

# ELGA helps immune-serology laboratories maximize uptime

NeoDIN Medical Institute and JM Corporation, Seoul, South Korea



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's partner in South Korea JM Corporation 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.

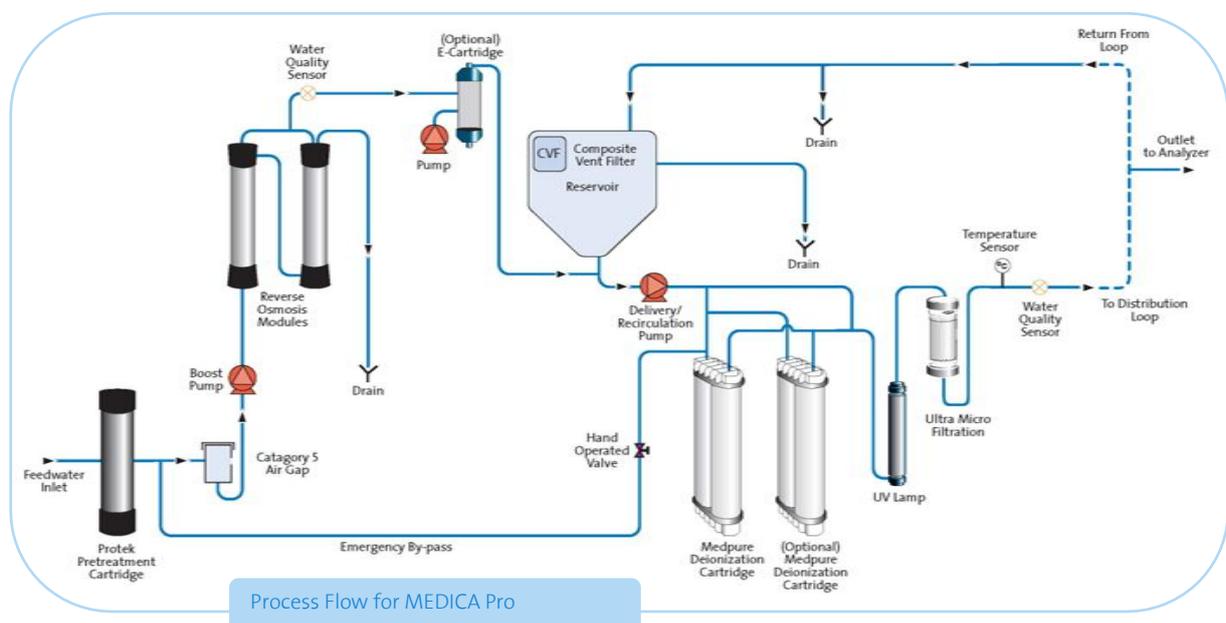
## Type 1 Ultrapure water ensures analyzer operates reliably

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.

JM Corporation, ELGA's South Korean partner 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



Centralized units with visual alert system

## The Solution

JM Corporation installed four MEDICA® Pro 120 water purification systems 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 to alert the maintenance technical personnel across the large laboratory testing area in the event of a system failure or of 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.

## 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, the excellent after service further confirmed ELGA as a reliable company for clinical analyzer installations.

Building on the established relationship, JM Corporation 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

## More Information

NeoDIN Medical Institute  
<http://www.neodin.co.kr>  
 JM Corporation

To find out more about ELGA LabWater's water treatment technologies and solutions for analytical applications, visit [www.elgalabwater.com](http://www.elgalabwater.com)

## About ELGA LabWater

**ELGA LabWater** manufactures supplies and services water purification systems for use in laboratories, and which meet the water requirement specifications for general laboratory, healthcare and clinical grades of water. ELGA offices and distributors are located in more than 60 countries worldwide. ELGA is the global laboratory water brand name of Veolia Water Solutions & Technologies.

**Veolia Water Solutions & Technologies**, subsidiary of Veolia Water, is a leading design & build company and a specialized provider of technological solutions in water treatment. With 10,767 employees, Veolia Water Solutions & Technologies recorded revenue of €2.315 billion in 2011. [www.veoliawaterst.com](http://www.veoliawaterst.com)

**Veolia Water**, the water division of Veolia Environnement, is the world leader in water and wastewater services. Specialized in outsourcing services for municipal authorities, as well as industrial and service companies, it is also one of the world's major designers of technological solutions and constructor of facilities needed in water and wastewater services. With 96,651 employees in 69 countries, Veolia Water provides water service to 103 million people and wastewater service to 73 million. Its 2011 revenue amounted to €12.617 billion. [www.veoliaeau.com](http://www.veoliaeau.com)

For more information please visit [www.elgalabwater.com](http://www.elgalabwater.com)