



Raise deaeration performance standards

ALDOX™ Optimization & Upgrading Services

To boost operational productivity continually, it is essential to modify or replace components and update ancillary and peripheral equipment. Optimization & Upgrading are Alfa Laval services brought to you by our service experts to enhance your installation with the most advanced technology. This keeps it running at peak performance.

To ensure your ALDOX™ equipment meets your current deaeration requirements, Alfa Laval offers ALDOX Optimization & Upgrading Services. ALDOX Optimization & Upgrading Services are applicable for all module types, including those for additional water treatment such as chilling, plate pasteurization and UV sterilization.

With 500 ALDOX systems in operation around the world, we take best practices into consideration when optimizing and upgrading your system. By doing so, we are able to optimize deaeration levels to guarantee performance, deliver measurable energy savings, ensure the correct usage of stripping gas, and enhance the service lifetime of your ALDOX system.

Benefits of upgrading

- Reduced total cost of ownership.
- Improved performance in terms of quality, quantity and efficiency.
- Adapt to changes in process specifications.
- Improved mode of operation and maintenance.
- Measurable energy savings.
- Optimal deaeration levels guaranteed.
- Optimized usage of stripping gas.
- Longer equipment service lifetime.
- Increased worker safety.
- Reduced environmental impact of operations.

The workflow

Alfa Laval's Optimization & Upgrading Services for the ALDOX system consist of two phases.



Phase 1: Optimization

To be able to recommend any specific upgrading service, Alfa Laval service engineers audit your existing ALDOX system and, at the same time, optimize your installation. This first phase, sometimes referred to as a "health check", helps us understand the current condition of your ALDOX module.

The ALDOX audit begins with a questionnaire where you provide us with information about the important aspects of your current ALDOX installation. You and your staff may work with Alfa Laval service engineers to help gather data on your ALDOX system. Then our service engineers conduct various audit activities such as:

- Reviewing all applicable ALDOX installation drawings and documentation.
- Reviewing the ALDOX service history.
- Reviewing Alfa Laval parts supply data.
- Interviewing your service organization to gather other relevant information, such as when faults were detected, what corrective action was taken, when parts were replaced and other operational information.

- Inspecting the ALDOX module for leakage and other faults.
- Identifying and verifying key components.

Deliverables

Based on these activities, Alfa Laval service engineers assess the current condition of your ALDOX installation and submit three documents.

- The ALDOX Audit Report includes recommendations such as:
 - Where complementary item numbering is required.
 - Where complementary safety marking and signs are needed.
 - Updates for documentation.
 - Service recommendations for pump service, valve service and PHE service
 - Replacement of faulty and/or obsolete Alfa Laval parts, instruments and associated products.
- The ALDOX Service & Maintenance Report including service history based on available data and service recommendations.
- A proposal for a two-star Alfa Laval Performance Agreement, which provides preventive maintenance services on an annual basis at fixed costs.

While on site, Alfa Laval services engineer perform ALDOX optimization activities based on current operating conditions and, where applicable, review and optimize the following parameters: pasteurization and cooling temperatures; UV intensity level; dissolved oxygen level; and, usage of stripping gas. Actual values are benchmarked against the design values of the system and optimized for peak performance.

Phase 2: ALDOX Upgrading

With the audit results in hand, Alfa Laval service engineers develop for your consideration several upgrading packages, which address different processing, performance and maintenance needs. This enables you to choose a conservative, aggressive or middle-of-the-road approach to enhance the performance of your ALDOX system.

Deliverables

Based on the ALDOX Audit Report, Alfa Laval recommends upgrading services for your installation. These may include:



Upgrading your ALDOX system boosts productivity by ensuring your installation is equipped with the most advanced technology.

- Upgrading the arrangement of the inlet water supply.
- Upgrading the deaerated water pump arrangement.
- Installation of a new PLC-based control system.
- Extension of the regenerative section in the plate heat exchanger.
- Improvement of the deaeration performance.
- Increasing capacity.

New services are constantly being developed. Feel free to contact your Alfa Laval representative should you require additional services.

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com