



Alfa Laval

Performance diagnosis

For Air coolers

Insights to transform data into action

Keep a close eye on the state of your air cooler to optimize its performance. By measuring your equipment's operating condition, we can identify maintenance needs and potential improvements at an early stage – allowing you to control your operating costs.

Performance Diagnosis uses our unique Alfa Laval scan system to safely and accurately gather data on the air side of your heat exchanger without stopping its operation. Our experts analyze the data and tell you how to restore and maintain the cooler's optimal performance.

Our service helps you with:

- Enhancing equipment performance
- Reducing energy consumption
- Reducing operation costs
- Reducing maintenance costs

How it works

This service is compatible with most types of air coolers, including non-Alfa Laval manufactured. A Performance Diagnosis entails the following:

- Visual inspection of your equipment (mechanical parts, finned tubes, identifying potential leakages).
- A performance assessment of the air side, performed with our Alfa Laval scan system to collect air flow velocity and temperature of the air stream.
- A performance assessment of the process side based on your data (flowrate, inlet and outlet temperatures and pressures, absorbed current)
- Measuring noise emission and vibration levels

Once we have inspected your unit, we issue a report that outlines performance levels, along with recommended actions for improvement.

Alfa Laval Olmi Service Team provides both commercial and technical support for implementing the next steps, as well as a follow-up scan to verify achieved results.

Additionally, we document the complete history of interventions and assessments of your heat exchanger's performance.

How the service can be delivered



Case story

Greek refinery restores and upgrades cooling performance thanks to precise diagnosis

A refinery in Greece was experiencing underperformance with newly delivered equipment. They conducted a site survey and revealed extensive dirt on the air side. This was confirmed by a Performance Diagnosis performed with Alfa Laval scan system, which showed a 15% loss in effective exchange surface. The Alfa Laval Olmi team cleaned the air side, swiftly recovering the performance of the air cooler, in effect restoring the production process to the original specifications.

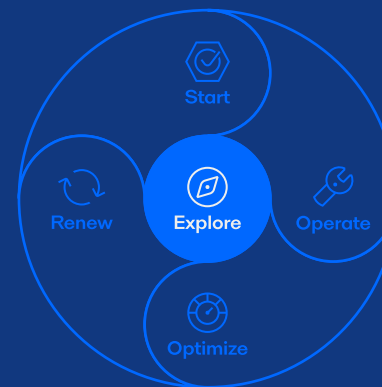
Thanks to the diagnosis, the Alfa Laval Olmi team found other areas where the air cooler could be improved. The process requirements had evolved since the equipment was originally purchased, so the team made a few modifications on the air side components to meet the refinery's new requirements. This resolved the most critical bottleneck in the process stream, resulting in an impressive production increase of 12% to 15%.



24/7/365 Service and Support

With service centres, field service engineers and spare parts distribution hubs around the world, the Alfa Laval Service network is always on the job for you.

When you contact our 24/7/365 Service and Support, our experts coordinate everything to quickly address your needs – either remotely via our digital tools or on site.



Related services

Condition Assessment

Cleaning

Reconditioning

Troubleshooting

Contact Alfa Laval

Service and support

We are here to help you!
Please provide details about your needs, and we'll connect you with the best team to advise you.



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