



Insights to transform data into action

Performance Assessments and Audits for Alfa Laval compact welded heat exchangers



For long-term reliability, periodic examination of your Alfa Laval welded heat exchanger is key. By knowing the actual operating performance of your equipment, we can help you define an optimal preventative maintenance plan according to the specific conditions of your plant and processes. This, in turn, gives you even further improved sustainability with lower total lifecycle costs.

For compact welded heat exchangers like Alfa Laval Compabloc, DuroShell and spiral heat exchangers, we offer two services to give you insight into your unit's true state. Performance Assessments entail a review of basic thermal parameters, while a Performance Audit involves a more complete analysis of the entire system. Our knowledgeable local service team can guide you in determining which service makes the most sense for your operation.

Benefits

Carried out by experienced experts, both an Alfa Laval Performance Assessment and an Alfa Laval Performance Audit can provide a number of benefits:

- Optimized service intervals to meet your process requirements
- Reduced energy costs thanks to improved thermal efficiency and lower pressure drop
- Better planning to give you full control of production uptime and your maintenance budget
- Improved sustainability in your processes with longer life for your equipment



Scope

During a Performance Assessment, a trained Alfa Laval service specialist examines the thermal performance of your heat exchangers. In a Performance Audit, this analysis is also extended to the global environment of your installation in order to provide a full view of the optimization potential of your heat exchanger.

Upon completion of both services, you receive a comprehensive report detailing the current condition of your equipment with recommendations for your optimal maintenance programme. In a Performance Audit, this report includes added information about the operation of your heat exchanger in the full context of its environment, including information on hydraulic and thermal performance.

When is this service right for me?

Performance Assessments and Performance Audits are specially developed to further improve the sustainability of your heat exchangers and give you insights for proactive improvements. Consider these services for:

- **Implementing a proactive maintenance culture.** Make sure your maintenance activities are planned for optimal efficiency. We recommend a Performance Assessment at least once per year.
- **Designing your ideal service schedule.** If conducted on a regular basis, you can predict the status of your unit and plan accordingly, so that cleaning and other maintenance procedures are neither too early nor too late.

- **Minimizing the risks of unplanned shutdowns.**

By looking at your heat exchanger within its global environment during a Performance Audit, an Alfa Laval process expert can propose solutions to optimize performance and ensure reliable operation with maximum uptime.

What information is required for these services?

In order to properly perform a Performance Assessment and provide you with the best results, your Alfa Laval technician will need the following information in advance:

1. Flow rate for the inlet and outlet on both sides
2. Inlet and outlet temperatures for all media
3. Properties of the fluids, if changed
4. Configuration of the heat exchanger

The following additional information is required for a Performance Audit:

1. Piping & installation diagrams for the heat exchangers and process flow diagrams for the overall plant
2. Inlet/outlet temperatures, pressures and flow rates covering at least the preceding 12 months (a template for this information is available)
3. Start-up and shut-down procedures (i.e. cold or hot start-up, etc.)
4. The heat exchanger's original thermal data sheet

Other information may be required on a case-by-case basis.



For detailed insights into your equipment's true performance, Alfa Laval is here – with service to keep you growing.

For the market's widest portfolio of welded heat exchangers, Alfa Laval offers an unmatched range of both preventative and reactive services to keep your equipment performing and your business growing. Other services for Alfa Laval welded heat exchangers include:

- Installation and commissioning supervision
- Condition audit
- Emergency stock
- Cleaning services
- Exclusive stock
- Troubleshooting
- Training
- Spare parts

Learn more about our service portfolio for Alfa Laval Compabloc at www.alfalaval.com/compabloc/service, for Alfa Laval spiral heat exchangers at www.alfalaval.com/spirals/service and for Alfa Laval DuroShell at www.alfalaval.com/duroshell/service.

Alfa Laval reserves the right to change specifications without prior notification.

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.

