



Dry Dock Services for Alfa Laval Aalborg boilers

Preventive maintenance to ensure continued performance

Preventive maintenance reduces unplanned stops, increases equipment lifetime and avoids workplace accidents. When it comes to your boiler systems, the best time for preventive maintenance is when your vessel is in dry dock. Taking advantage of the opportunity improves boiler system reliability and reduces the risk of boiler downtime when your vessel is in service.

What we do

Alfa Laval can provide a customized proposal for servicing your Alfa Laval Aalborg boiler in dry dock, fully tailored to your needs. In general, we recommend:

- *Renewing key boiler parts to maintain reliable operation*
We can identify parts that need renewal during a pre-docking inspection, or one of our pre-prepared dry dock kits can be used (applicable only for Alfa Laval Aalborg burners):
 - **Basic**, containing only vital parts whose failure would impact safe operation
 - **Standard**, containing all recommended parts for standard dry docking every fifth year
 - **Plus**, containing the above and your choice of optional replacement/upgrade components
- *Performing a function test of the automatic combustion control system*
- *Inspecting the pressure section to identify potential risks (if not done prior to dry docking)*



Engaging our skilled engineers for inspection and service will ensure that your boilers get the service they need, executed with Alfa Laval's high standard of quality. For more information, please see the reverse or contact your local Alfa Laval sales office.

Benefits

- Reduced risk of breakdowns and off-hire
- Optimized combustion and overall boiler performance
- Long-term reduction of OPEX via optimized maintenance schedules
- Extended boiler lifetime

Scope of service

Alfa Laval can perform a wide range of boiler services while your vessel is in dry dock, but we typically recommend the following:

- **Renewal of key boiler parts**

Key parts should be renewed to maintain reliable boiler operation. The best solution is for Alfa Laval experts to perform a pre-docking inspection of the combustion control system, so that they can identify parts in critical need of renewal during dry docking.

If a pre-docking inspection is not possible, Alfa Laval has pre-prepared dry dock kits based on many years of service experience. The kits are available in three different levels:

- **Basic**

The Basic dry dock kit contains vital parts whose failure would impact safe boiler operation. Intended for vessels with a limited budget, its scope is the minimum we recommend for renewing parts in dry dock.

- **Standard**

The Standard dry dock kit contains all the recommended parts for a standard dry docking every five years. This includes the parts in the Basic kit above, as well as parts for overhauling most components. Doing so will protect operational integrity and secure boiler reliability until the next dry docking.

- **Plus**

The Plus dry dock kit includes everything in the Standard kit, but it provides a range of optional component replacements and upgrades, for example to replace outdated and poorly functioning pneumatic actuators or controllers. These options can be selected as needed.

- **Function test of the automatic combustion control system**

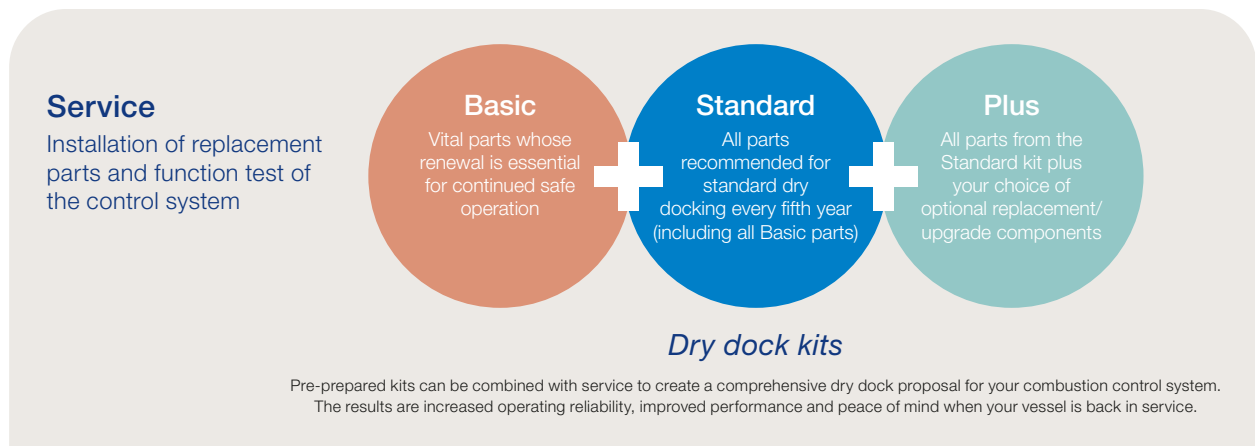
Testing the functions of the automatic combustion control system will ensure that it performs reliably when your vessel is back in service after dry docking.

- **Inspection of the boiler/economizer pressure section**

The pressure section of your boiler or economizer should be examined to identify potential risks. Preferably, this should be done prior to dry docking through an Alfa Laval Pressure Part Inspection. (Please refer to the Pressure Part Inspection leaflet.) However, an inspection can be performed at the beginning of a dry dock stay if your vessel's schedule or other circumstances make it necessary.

Scope of supply

- All necessary spare parts (identified through inspection or included in pre-prepared kits)
- Service engineer attendance for parts installation and function test of the automatic combustion system (can be combined with parts order to form a complete dry docking proposal)
- Service engineer attendance for an Alfa Laval Pressure Part Inspection (ordered separately)
- Final report with all findings and recommendations for corrective actions or improvements/upgrades (if any)



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

100004424-1-EN 2110