



The composite modular boiler plant

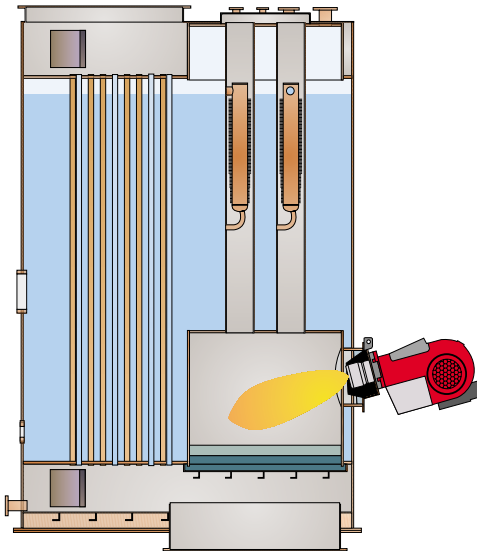
MISSION™ OC



MISSION™ OC is a high performance, combined oil and exhaust gas-fired boiler, with 5 t/h as the maximum capacity of the oil-fired section. MISSION™ OC is a vertical boiler with an exhaust gas section consisting of smoke tubes. The advanced boiler design is based on the modular concept, offering many advantages to both shipyards and owners.

MISSION™ OC

- a modular composite boiler



The boiler design has integrated pin-tube elements. The pin-tube elements support both the furnace and the boiler top plate. The design has been significantly optimised to achieve lower weight and improved strength. The result: longer lifetime of the pin-tube by a factor of 8.



A new reliable and user friendly microprocessor based control system facilitates the operation and control of the MISSION™ OC boiler. The control system provides fully automatic operation of the boiler plant and the pressure-jet burner.

The system includes burner load and sequence control, water level and safety device, burner motor and fuel heater starter and starter for fuel oil pumps.

- A unique composite boiler design
- Capacity range up to 5 t/h on the oil-fired section
- Quick and easy installation

MISSION™ OC is a high quality design, based on more than 75 years of experience. MISSION™ OC is a combined oil and exhaust gas-fired boiler with a capacity range up to 5 t/h on the oil-fired section. It is a standard preassembled boiler plant offering quick and easy installation. MISSION™ OC is a part of Aalborg Industries' modular boiler concept.

Construction

MISSION™ OC is a vertical boiler with an exhaust gas section consisting of smoke tubes. The cylindrical shell surrounds the smoke tubes, the furnace, the steam space and the convective section consisting of pin-tube elements. The boiler pressure part is made of well-proven mild steel with elevated temperature properties. Stress concentrations in corners are minimised by the simple design of cylindrical shells with flat plates of equal thickness.

Burner

MISSION™ OC operates with a monobloc type pressure-jet burner. The burner is hinge mounted and can be swung out for service and easy access to the furnace. The burner housing is mounted on the boiler front, angled 15 degrees downwards against the furnace bottom. This allows for a long flame and offers better utilisation of the furnace. The flow of the combusting particles becomes optimal, and the result is a high performance combustion - even with the lowest grades of fuel. MISSION™ OC is also available with a rotary-cup burner.

Silencer

The composite boiler can be supplied with a compact silencer to suit any type of diesel engine. The silencer is based on well-proven technology. The optimum silencer dimensions are unique for each installation and calculated on the following basis:

- Engine type
- Exhaust gas amount and temperature at 100% engine load
- Required level of silencing
- Exhaust gas system dimensions

Customer benefits for shipyards and owners



MISSION™ OC is designed for modern shipyards. The composite boiler meets the ever increasing demands for rational and cost effective shipbuilding - in every phase of the project.

Virtually no on-site assembling

MISSION™ OC can be delivered fully assembled.

Easy installation

Installation is a matter of connecting up with premounted fittings and connections situated almost exclusively on the boiler top. Inlet and outlet boxes are included and the boiler foundation is prepared for welding to the deck.

Project and engineering hours cut to a minimum

All information regarding boiler plants is available immediately upon request. This includes layout drawings for design of the engine room.

MISSION™ OC is an advanced standard design offering thoroughly tested and optimised solutions.

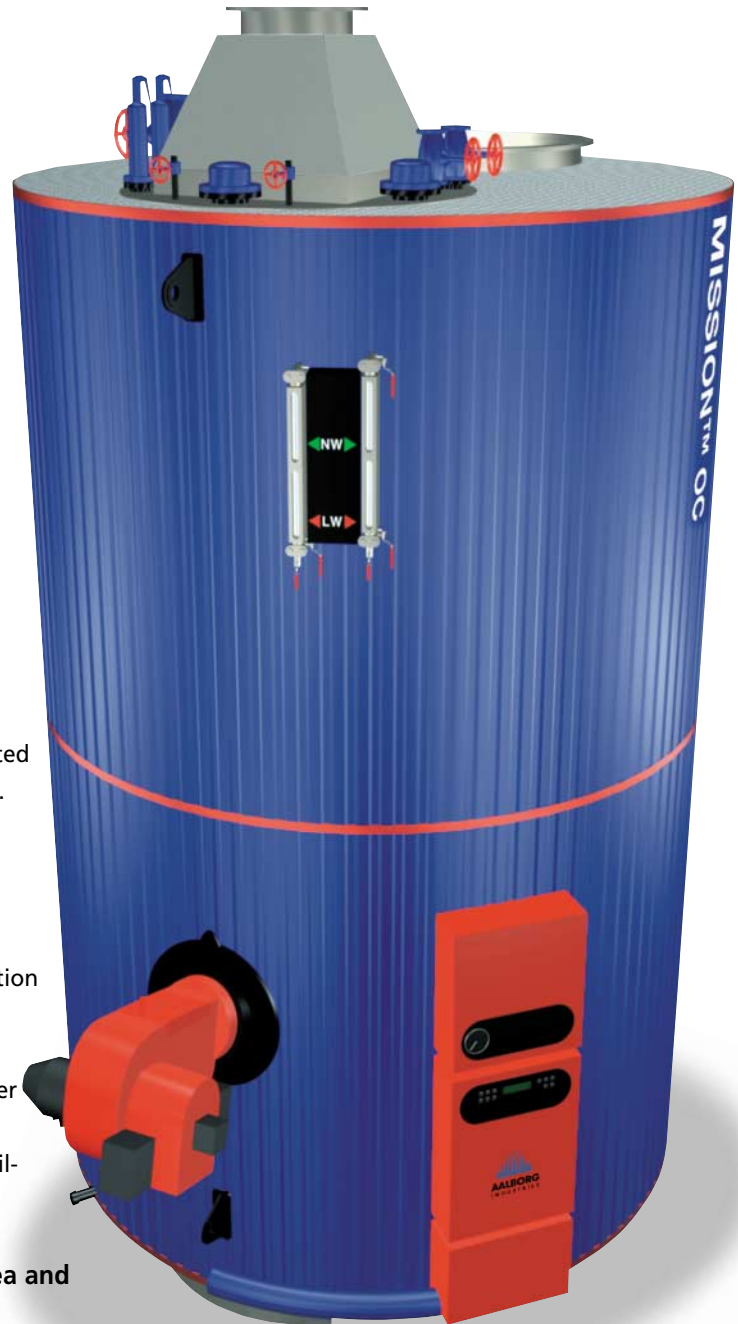
Easy inspection and maintenance

MISSION™ OC has adequate space for inspection and maintenance in the steam/water space. The boiler can easily be water washed or mechanically cleaned through the boiler uptakes.

Engages less deck area and has lower weight

Quick world-wide service and repair

Spare parts are kept in stock world-wide due to the standard design.





Aalborg Industries - life-long partnership

Aalborg Industries is the world's leading supplier of marine boilers. Aalborg Industries has the experience, the state-of-the-art technology and the knowledge to meet any shipyard's and owner's quality and technological demands. Aalborg Industries aims at lasting partnerships with shipyards and owners. A strong commitment ensures continuous customer access to Aalborg Industries' knowledge and products. This is your guarantee that we will always remain up-to-date on your needs and demands.



Aalborg Industries is an international group of companies within boiler and combustion technologies, and therefore more than just a supplier. We are simply your most reliable choice of business partner now and in the future.

Business centre:

Aalborg Industries
P O Box 844, 24 A Gasvaerksvej
9100 Aalborg, Denmark
Tel. +45 99 30 44 00
+45 40 16 66 86 (24 hrs.)
Fax. +45 98 16 83 16
E-mail: aalm@aalborg-industries.dk
<http://www.aalborg-industries.com>

Your contacts:

■ **Finland:** Tel. +358 2 838 3100
■ **Japan:** Tel. +81 78 271 5720
■ **Sweden:** Tel. +46 8 580 243 00