

MISSION™ 3-Pass



MISSION™ 3-Pass is a modern oil and gas-fired industrial boiler with 2-20 t/h steam capacity and up to 30 barg design pressure. Compact and complete, ready to be installed. Designed and optimised with the total of Aalborg Industries' technical and innovative competencies in every detail - inside out.

MISSION™ 3-Pass

First in a new generation



Aalborg Industries burners have been specially designed to fit the MISSION™ 3-Pass boiler, providing excellent burner performance.

MISSION™ 3-Pass is the frontrunner in the new generation of boilers for the process and utility industries. A thoroughly modern industrial design based on recognised and well proven principles. Utilising the latest technology, the boiler is optimised to assure quality, reliability, long life, easy maintenance and sound economy.

Pressure parts

The heating surfaces are arranged symmetrically with the furnace in the centreline of the boiler to secure optimum water circulation. The furnace is designed with a plain surface for low pressures and with a corrugated furnace for higher pressures and capacities. The reversal chamber is fully water cooled to reduce the refractory to a minimum. The pressure part builds on well documented design and production concepts. All pressure parts are manufactured in carefully selected materials without high tensile steel. The MISSION™ 3-Pass boiler is designed according to the EN 12953 and ASME Sect. I standards.

Control system

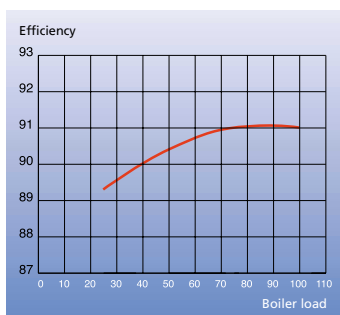
The control system incorporates:

- Burner Management System with load and sequence control
- Water level control and safety equipment
- Motor and oil heater starters

The control system can be enhanced by a load-sharing system which regulates the load between several boilers in one system, based on the POMC technology (Process-Optimising Multivariable Control). The POMC load-sharing system considerably boosts the boilers' total efficiency over earlier generations of load-sharing systems.

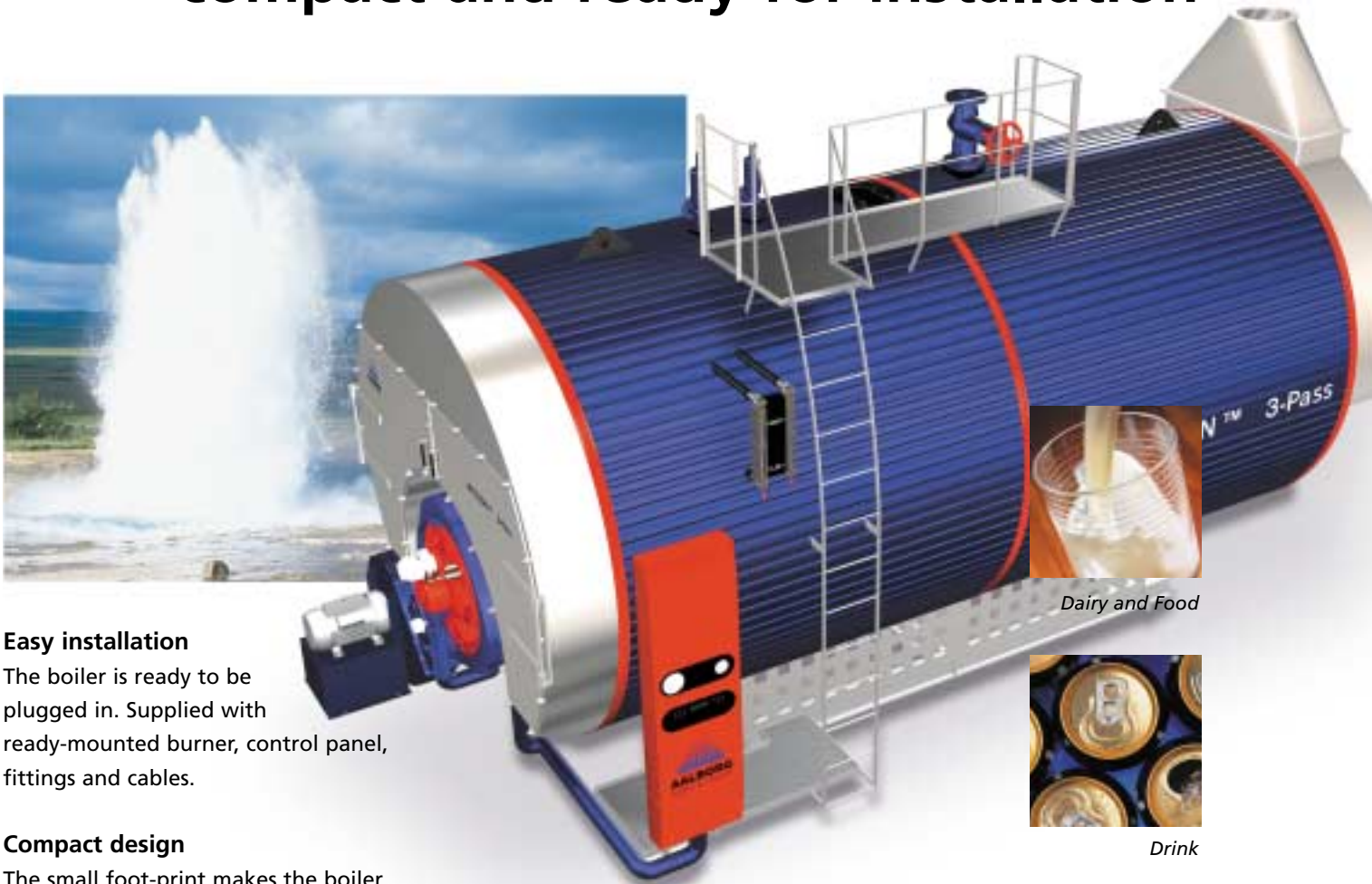
Burner

MISSION™ 3-Pass comes with a burner of either the pressure atomising, steam atomising or rotary cup type for fully automatic operation. Burners for fuels such as natural gas, oil or combined firing of gas and oil can be offered.



The thermal efficiency of MISSION™ 3-Pass is 91% at full load - and very stable throughout the load range. In combination with an economiser the efficiency can be as high as 95%.

Customer benefits - compact and ready for installation



Easy installation

The boiler is ready to be plugged in. Supplied with ready-mounted burner, control panel, fittings and cables.

Compact design

The small foot-print makes the boiler easy to incorporate.

Easy inspection and maintenance

To the greatest possible extent, all connections and valves are located on top of the boiler - easily accessible during installation, inspection and maintenance. A number of manholes facilitate internal inspection.

Easy to clean

The smoke tubes are fast and easy to clean thanks to the low number and efficiency of the spiral tubes.

Uniform, high steam quality

The boiler's efficient steam drier delivers a dry, saturated steam. A superheater can also be installed.

Improved combustion

The furnace has a comparatively low heat release ratio and provides ample space for the flame. This improves combustion and limits flue gas emissions.

Accessories

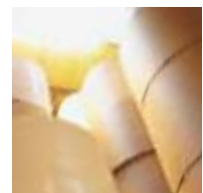
The boiler plant can be equipped with economiser, superheater, condensate tank, deaerator, feed water tank, blow down tank, and O₂ combustion control.



Dairy and Food



Drink



Paper



Heat



And..?



Co-operation building on mutual trust and commitment

The core business of Aalborg Industries is to develop innovative boilers and burners, adding the value of our lifelong commitment to every product delivered from our company. This is part and parcel of every contract we close, and a prerequisite for the lasting customer relationships in which we believe so strongly.



A strong network - world-wide

Aalborg Industries is an international group of companies with expertise in boiler and combustion technology. We are more than just another supplier - we are quite simply your best choice of a business partner now and in the future. Along with a global service network at your service for repairs, maintenance and spare parts - meeting even the most critical needs.

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www.aalborg-industries.com

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