

SteamGen™ 8



*Always external insulation, long lifetime, less maintenance
As standard designed for cyclic service, daily starts and stops*



Aalborg Engineering
understanding energy



“The best available technology on the market”

A Lifetime Investment

Aalborg Engineering specializes in the design and supply of steam boiler systems. Our objective is to become the preferred partner for customized boiler plants.

We will lead the way in ensuring the success and profitability of our customers projects, by providing highly efficient, reliable and competitive energy solutions within the agreed time of delivery. Proximity to customers and markets, optimization of know-how and experience, proven technology, excellent business practices, long term cooperation with pre-selected and well-known suppliers, are all important aspects of our partnership philosophy.

Our products are directed towards customers who require a high degree of adjustment in order to fulfill the technical, operational, and/or other requirements that are

crucial to the success of their projects. We always offer an optimized solution that includes numerous possibilities to develop and change the system’s configuration, so that it can be adjusted to a varying demand for energy.

Our Heat Recovery Steam Generators are based on reliable solutions. Each individual boiler design is unique and offers the level of customization, know-how, flexibility, efficiency, environmental protection, installation, operation and maintenance required for your plant.

Aalborg Engineering recognizes that your investment is considered a lifetime investment.

Your Lifetime Partner

Our objective of becoming your lifetime partner for customized boiler plants, stems from our focus on proactive consultancy throughout the entire project. We ensure our customers are updated with regards to the ongoing development of the project. We consider it an added value that we offer suggestions about possible improvements or other solutions, instead of indiscriminately following the customer’s specifications.

Essentially, our partnership philosophy is all about trust. With company values such as credibility and professionalism, we endeavor to secure reliable consultancy for the customer. Combined with our company’s commitment to excellent business practices and conduct, this will enable us to continue expanding our principles of partnership in the future.

Our brand is closely linked to our technology, which is known for being unique, safe, robust and effective. We frequently offer solutions, which no one else can offer.

Furthermore, we also measure the boilers’ performance and efficiency and complete tests on all our delivered boiler systems. Our specially-developed software is continuously upgraded based on the latest knowledge from existing boiler solutions.

As a result, we are able to deliver solutions with the utmost performance and efficiency, at any given time.





SteamGen™ 8

In projects where power production is the primary requirement, it is necessary to optimize on criteria other than investment cost. In this product category, Aalborg Engineering can provide the SteamGen™ 8, which offers the best and most readily available HRSG technology on the market.

SteamGen™ 8 is the vertical HRSG for medium-sized gas turbines, and is available both with no supplementary firing, and with limited supplementary firing. The boiler is designed to meet the highest possible reliability combined with the most cost-efficient solution.

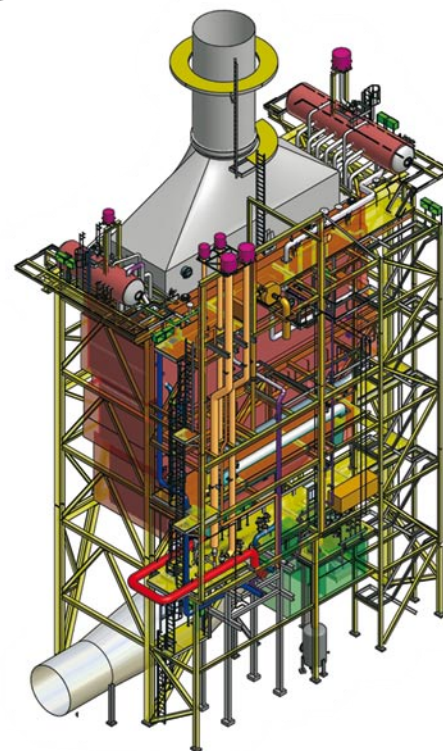
The vertical SteamGen™ 8 is as standard designed for 100% natural circulation. There is no need for startup or booster pumps in any load cases.

Load change rates are superior with SteamGen™ 8 compared to others, due to the built in contingency, high circulation ratio and low steam space rating in the steam drum.

Our references include multiple units with decades of cyclic service. These plants have daily start up and shut down according to power prices or consumption. This feature is a built in possibility which might become important in the future power market.

Due to the vertical arrangement the required space can be optimized. This flexibility includes locating the GT below the HRSG with exhaust vertical upwards. The limited space requirement is also an important criteria for offshore and city centre locations.

The SteamGen™ 8 boiler is designed according to internationally recognized boiler codes such as PED/EN.



3D rendering of SteamGen™ 8 for Thermatel, Switzerland



Two SteamGen™ 8 at Inesco, Belgium

SteamGen™ 8

– Product Overview

Design Data

Gas Turbine Size	10 - 150 MWe (typical range)
Steam capacity	15 - 250 t/h (typical range)
Operating pressure	3 - 140 bara (typical range)
Steam temperature	Saturated - 540 °C (typical range)

Product Features

Fast start up and response time
Natural circulation
High efficiency
Fully drainable
Modular built
Easy installed without use of large cranes
Small footprint
Custom-designed
Potential hot water production
Installation of emission reduction system
Stand-by heating



Customer Benefit

Direct start on HRSG
No power consuming pumps
Less fuel cost
No frost damage during stand still
Secure transport, safe and fast erection
Low installation cost
Improved arrangement
Optimised performance
Further reduction in fuel cost
Environmental improvements
Operational boiler at all times

Product Range

With the SteamGen™ product range, Aalborg Engineering can customize any complete boiler or heat recovery plant with all relevant types of equipment:

- **SteamGen™ 4** – Industrial package boiler
- **SteamGen™ 6** – High fired HRSG
- **SteamGen™ 8** – HRSG for combined-cycle power plant
- **SteamGen™ 10** – HRSG for industrial process gas
- **Auxiliary systems**



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