

Foster Wheeler Terrace-Wall™ steam reformer

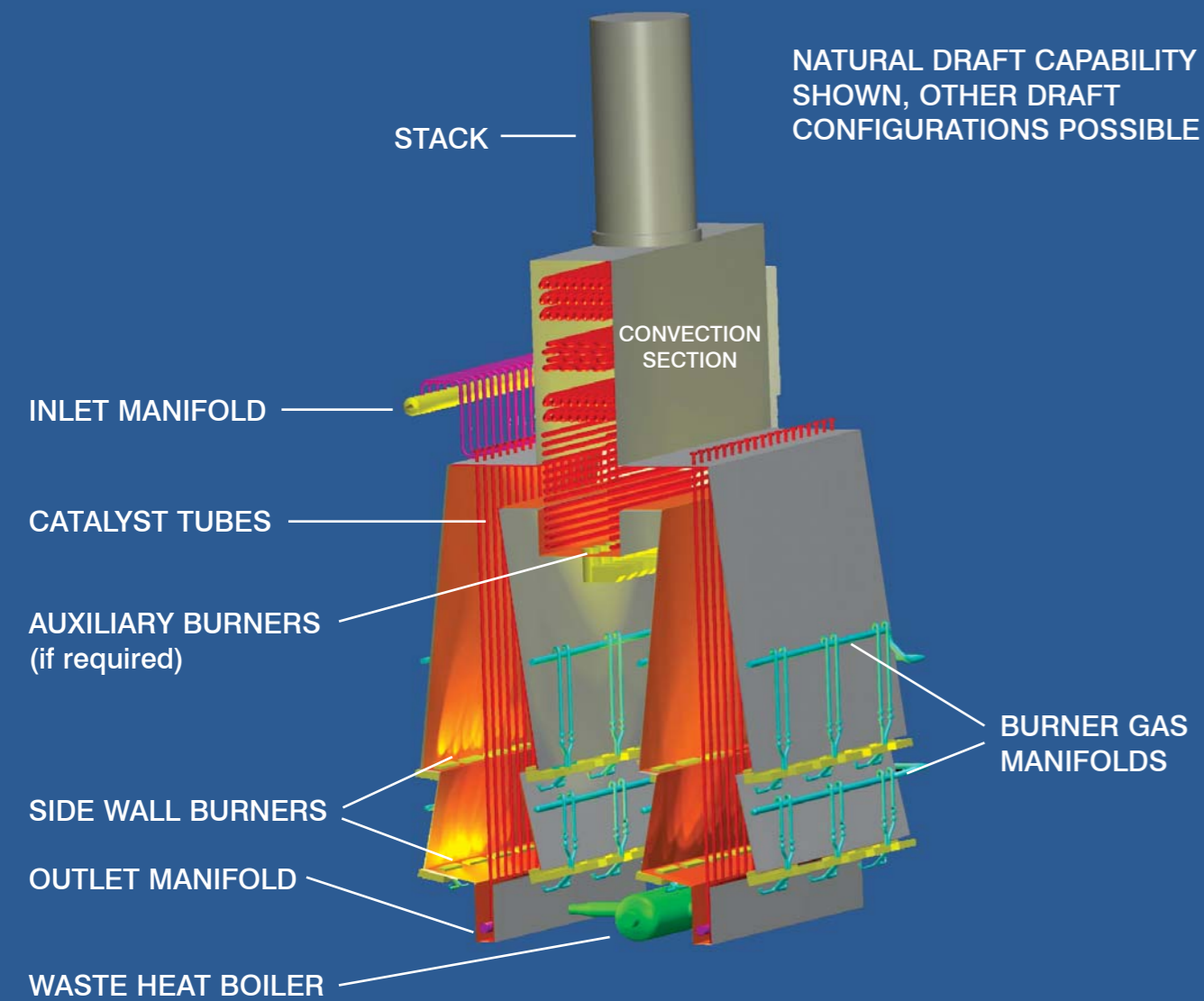
Our Terrace-Wall™ fired heater steam reformers are in use in hydrogen, syngas and ammonia plants in more than 40 countries world-wide.



Steam reformer furnaces

Reliably economic

www.fwc.com



Fired Heaters design centers

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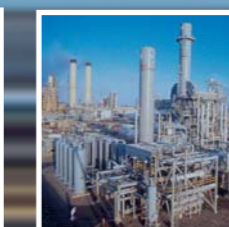
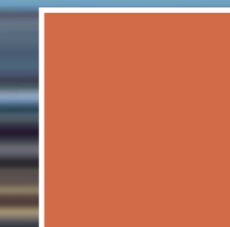
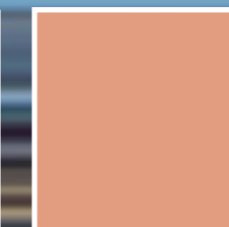
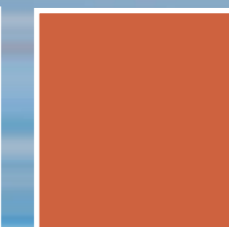
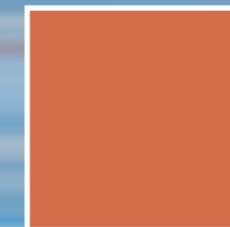
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Complete expertise in steam reformers

Major player in steam reformer technology



Why choose Foster Wheeler?

With over 2,000 Foster Wheeler fired heaters and waste heat recovery units supplied world-wide, we have built a reputation for quality, value for money and performance. Our significant repeat business from satisfied clients clearly demonstrates their willingness to return to Foster Wheeler time and time again.

We have designed and supplied some of the world's most technically advanced fired heaters, many of which are still performing well beyond their original design life.

We supply reformers for the production of:

- hydrogen
- ammonia
- methanol
- syngas

Working with us

As a major player in steam reformer technology, we have the necessary in-house expertise located in our major engineering design centers around the world to provide:

- low life-cycle cost
- thermal and mechanical design
- hydraulic and structural design all to the highest quality standards.

Foster Wheeler is renowned for its first-class project management, procurement, expediting and inspection skills.

An experienced fired heater project manager is appointed to be the single point of contact to ensure that our clients' projects are successfully completed and delivered to their specification.

Our capability

We have supplied over 200 steam reformers to the refining and petrochemical industries based on our own proprietary Terrace-Wall™ steam reformer. We work hard with our clients to find the optimum design solution, tailored to meet our clients' particular project requirements.

With our many years of experience in steam reformer technology we have the capability to resolve the design problems posed by today's most demanding requirements.

We can design a complete reformer steam generation system and process gas boiler, including:

- risers and downcomers
- interconnecting piping
- steam drum with patented internals to assure the highest level of steam purity.

Foster Wheeler's Terrace-Wall™ steam reformer

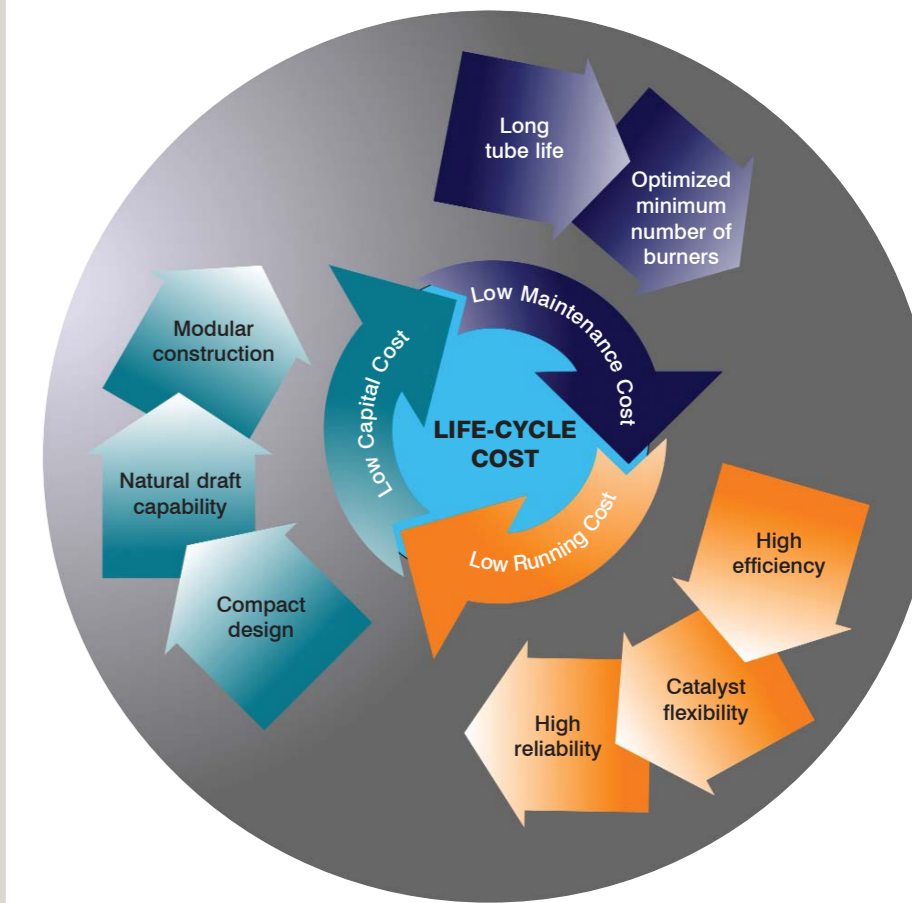
Key design features

- proven, innovative radiant section and firing arrangement
- input flexibility to handle a full range of feedstocks from methane to naphtha
- long catalyst tube life expectancy
- design can be a natural or induced draft system
- unique and highly cost-effective natural draft capability without the use of fans, providing maximum reliability and simplicity
- high efficiency, using GT exhaust for combustion air and air preheat system
- sloped walls and optimized two-level firing, enabling control of heat flux over tube length
- minimum number of low-NOx burners
- plot size is minimized as the convection section and stack are mounted directly on radiant section
- modular radiant section capability to reduce site construction time and cost

Our Terrace-Wall™ steam reformer design is ideally suited for modularization, which minimizes site erection time and cost.

This design also requires a smaller plot area than any other different type of furnace design.

Shop assembly of each modular section assures quality control in the final product.



Foster Wheeler builds both Terrace-Wall™ and downfired steam reformers to meet our clients individual requirements.

World Class Projects

With 70 years' experience in steam reformer technology, Foster Wheeler delivers projects on time and against aggressive schedules.

Reliable and cost-effective