

Non-Condensing Low Temperature Industrial Boiler Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Non-Condensing Low Temperature Industrial Boiler Market was valued at USD 2.1 billion in 2024 and is expected to grow at a CAGR of 4.4% from 2025 to 2034. This growth is being driven by the modernization of outdated industrial systems and strategic upgrades to boiler infrastructure. Investments in energy-efficient technologies, along with the integration of durable and corrosion-resistant components, are contributing to an optimistic outlook for the industry.

The segment for temperatures ranging from >140°F to 160°F is projected to generate USD 1 billion in revenue by 2034. The segment growth is driven by its use in sectors that require precise temperature control, such as refineries, food processing, and chemical manufacturing. Non-condensing boilers in this range are engineered to deliver optimal operational efficiency and consistent performance under demanding conditions. Manufacturers are increasingly focusing on enhancing durability by utilizing advanced materials and innovative designs to extend the lifespan of their products. The integration of Internet of Things (IoT)-enabled remote monitoring and predictive maintenance systems is further expected to reduce downtime, optimize operations, and increase the adoption of these systems across industries.

The chemical sector is poised to grow at a rate of 3.5% through 2034. This growth is fueled by the increasing implementation of strict environmental regulations aimed at reducing emissions and improving energy management. Modern industrial boilers now come equipped with advanced safety technologies, automated shutdown functions, and real-time monitoring capabilities to ensure compliance with stringent regulatory standards. The growing demand for chemical products, particularly in industries such as pharmaceuticals, agrochemicals, and specialty chemicals, is also contributing to the

sector's expansion. This demonstrates the rising dependence on efficient and environmentally friendly heating solutions within the chemical industry.

In the United States, the non-condensing low-temperature industrial boiler market is projected to generate USD 450 million by 2034. The growing demand for reliable, cost-effective heating systems, coupled with ongoing industrial expansion, is boosting market prospects. The stringent emission regulations set by the U.S. Environmental Protection Agency (EPA) and state-level authorities are driving industries to adopt more advanced systems that improve heat transfer efficiency and reduce emissions. Additionally, the modernization of legacy heating systems, combined with a greater focus on low-maintenance, long-lasting solutions, is expected to further strengthen market growth in the U.S.

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