

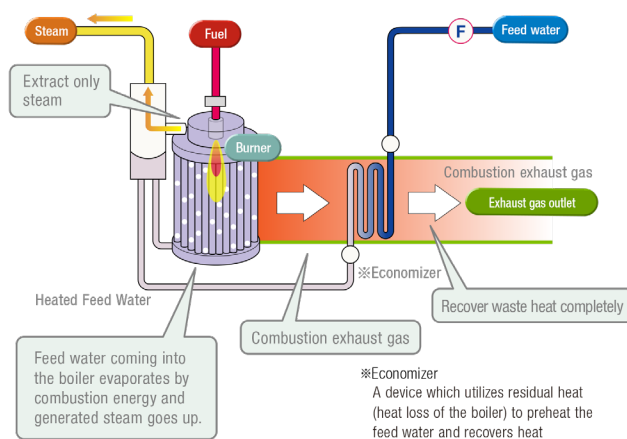
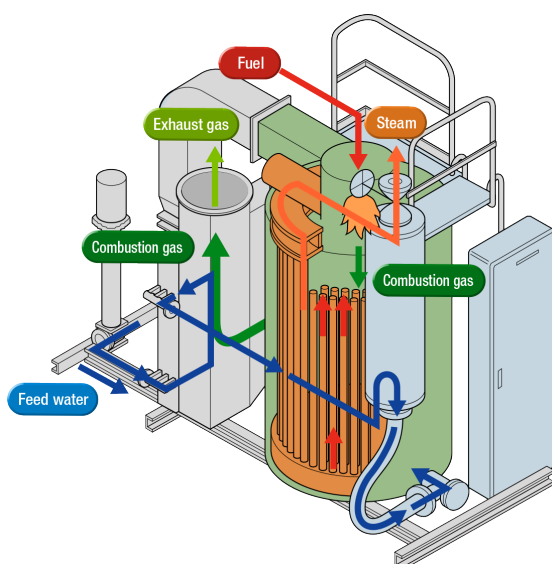
Highly efficient once-through boiler

Features

- ◆ Energy savings and reduction in CO₂ achieved!
 - Highest boiler efficiency in the industry, at 99% (gas fired)
 - PID controls incorporated for water supply and combustion
- ◆ Long life
 - High quality expected of products made in Japan
- ◆ **New! Hydrogen-only/mixed-fuel fired boilers** released to the Japanese market
 Supports switching to a variety of fuels, other than hydrogen, such as natural gas, liquefied petroleum gas, kerosene, diesel and gas oil



Basic Concept or Summary



- ◆ Boiler efficiency achieved, highest in the industry at 99% (gas fired)

Fuel cost reduction -
3.99 million yen per year

CO₂ reduction -
104 ton-CO₂ per year

- ◆ Electric power consumption - Maximum 68% reduction compared to existing equipment

Electric power cost reduction -
1.6 million yen per year

Calculation conditions

- ① Two units of small once-through boilers, Willheat 3t/h and three units of our conventional three-position once-through boilers, KF 2t/h, are operated for 7,200 hours per year, at an average load factor of 60%.
- ② Calculation performed with the CO₂ emission coefficient of 0.05143 kg-CO₂/MJ.
- ③ Calculation performed with the gas unit price of 80 yen/m³N."

Installation in Practice or Schedule

Domestic Large hydrogen co-firing once-through boilers, were released in December, 2023

Overseas Liquefied petroleum gas fired boilers for overseas markets, were released in July, 2021

Product Introduction Site (Global):

https://www.khi.co.jp/corp/kte/EN/new-product/wf_if99/

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<https://www.khi.co.jp/corp/kte/EN/>