

Vertical Once Through Boilers

John Cockerill has developed Once-Through Boilers over years, established this technology as a key innovation in the global heat recovery steam generators market (HRSG) for gas turbines under 100 MW.

Key Features

- Complete de-coupling of combustion turbine and steam cycle
- Starts and stops are performed independently from GT in dry operation mode with no by-pass stack and no diverter damper
- Unrestricted GT start-up without holding time from steam cycle
- Maintains gas turbine quick start capability
- Fast steam cycle startup and shutdown capability
- Simplified boiler design while providing greatest flexibility
- Dovetails very well with intermittent renewable energy
- Dry running OTB with properly equipped SCR system can control GT emissions in open cycle
- Modular box construction provides the shortest erection time and lowest installed costs



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Vertical Once-Through Boilers

Applications

- Conversion from Simple Cycle to Combined Cycle (Compact Footprint, Vertical Arrangement, No By-pass Stack)
- Flexible Combined Cycle Power Projects (Daily Cycling)
- Decentralization (Smaller Power Plants) and renewables integration
- Data Centers
- CHP (Industrial & District Heating)
- FLNG Applications
- Floating Power Barges
- Off-Shore Platforms
- Cogeneration



Experience

- John Cockerill is a specialized Original Equipment Manufacturer of HRSGs with over 700 installations worldwide
- John Cockerill has developed OTB technology since 1998
- OTB Test Plant was put in operation in John Cockerill workshops, Belgium



Key Benefits

- **Lowest Boiler Capital Cost** on a supply and install basis
- **Lowest Lifecycle Cost** due to the simplicity of the product
- **Most Flexible Operation** for today's demanding operating modes
- **Small Footprint and Light Weight**



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