

NO_x REDUCTION TECHNOLOGY - REGENERATIVE SELECTIVE CATALYTIC REDUCTION SYSTEMS (RSCR®)



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ENVIRONMENTAL

a Babcock Power Inc. company

Babcock Power Environmental Inc., a Babcock Power Inc.® company, provides fully integrated environmental solutions for utility power plants, waste-to-energy facilities, and large industrial applications worldwide. Babcock Power Environmental Inc. is a market leader in the field of environmental air pollution control technology, including the introduction of Regenerative Selective Catalytic Reduction (RSCR®) systems.

TECHNOLOGY AND EXPERTISE

Combining the proven benefits of Regenerative Thermal Oxidizer and Selective Catalytic Reduction technologies, Babcock Power Environmental Inc.'s Regenerative Selective Catalytic Reduction system offers highly-efficient NO_x (nitrogen oxides) control — designed especially for tail-end, low temperature applications. This innovative technology is capable of greater than 80% NO_x removal.

Since major components are modularized and installed at the tail-end of the existing plant's gas stream, the system can often be operational within eight months from order placement, with on-site construction and installation lasting only about 60 days. Start-up and commissioning of the RSCR® system can be as little as two to three days, making this an inexpensive, efficient, and easy-to-install pollution control device. Operation, maintenance and field services for the RSCR® product line are also available through Babcock Power Environmental Inc.



BENEFITS

- High NO_x removal efficiency
- Achieves high heat recovery > 95%
 - Minimizes energy costs
 - Flexible fuel source for burner
- Emissions guarantees
 - NO_x removal, NH₃ slip, catalyst life
- High NO_x removal efficiency
- Proprietary NH₃ system design
 - Unique injection systems ensure high performance and low energy
 - Aqueous or anhydrous NH₃ designs available
- Self-contained, tail-end unit
 - Includes fans, controls, burners
 - Built-in cleaning capabilities
 - Install/start up with minimum outage time
- Modular, standard design to minimize installation time and cost
- Bypass capabilities included
- Optional CO reduction catalyst



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APPLICATIONS

The Babcock Environmental Inc. RSCR® System is designed to reduce NOx and other emissions from boilers and process equipment, targeting tail-end/low temperature applications where the flue gas is relatively cool with low levels of particulates and acid gases.

REGULATORY COMPLIANCE

Local, state and federal agencies continue to evaluate and lower the NOx emission levels allowed by new or existing industrial installations, which the RSCR® can help achieve. Also, adding a RSCR® may assist you in qualifying for a particular state's Renewable Energy Certificate program or to achieve less than 250 TPY of pollutant emissions.



SAFETY³ PEOPLE. POWER. PROJECTS.

We're giving safety the third degree.

Babcock Power Inc. and its subsidiaries place the safety, health and security of our people at the core of our company values. Our team is our most valuable resource, generating solutions everyday to deliver safe, clean, reliable energy globally. With a keen focus on safety, Babcock Power Inc. conducts business in a manner that protects our people, our customers and the environment. From innovation to generation, we are proud of our award-winning safety record and are committed to operating with integrity and excellence.

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