



**WATERLOO  
MANUFACTURING**  
COMPLETE BOILER ROOM SOLUTIONS

# Boiler News

Volume 39

Dec 2014

## Go Green in the Boiler Room

Cleaver-Brooks recognizes there is a need for advanced technologies that enable a more energy-efficient and environmentally friendly generation of steam and hot water to make boiler rooms more green. Cleaver-Brooks is one of only a few boiler manufacturers in the world that has a dedicated product development center. Located in Milwaukee, Wis., engineers in the center are dedicated to developing efficient and sustainable products.

The engineers have developed turnkey conversions and comprehensive upgrade and retrofit capabilities that make it easy to change fuel types, lower emissions, increase boiler efficiency, or bring any age system back to the manufacturer's original specifications.

### Here are several suggestions for lowering emissions on your boiler system:

- Add flue gas recirculation (FGR) to reduce the formation of NOx emissions
- Add or upgrade controls to hold emissions as low as possible every day
- Upgrade the burner to bring the combustion system up to date with the lowest-emissions technology available
- Add selective catalytic reduction (SCR) to achieve emissions requirements that are lower than the best available for boiler and combustion technology

### To increase efficiency of your boiler system, consider these options:

- Convert the system to a less expensive fuel type
- Add or upgrade controls to keep the boiler system operating at peak efficiency
- Upgrade the burner to one with high turndown and modulation technology to prevent energy loss from a boiler cycling in low fire
- Add a heat recovery system that recovers waste exhaust heat and uses it to heat a cooler water source, such as boiler feedwater

Waterloo Manufacturing and Cleaver Brooks now offer a Boiler Plant Optimization Program. This service includes an intensive on-site review of your system and provides you with a detailed summary that identifies possible energy savings through increased efficiency, reliability concerns and possible contingency plans.

By continuing to develop and encourage greener boiler room solutions, Cleaver-Brooks estimates over the next decade, it will help companies save in fuel and facility costs and prevent more than 100,000 tons of emissions and particulates from entering the environment.

To learn more about Cleaver-Brooks energy-efficient, low-emissions products and services including upgrade and retrofit options please contact Waterloo Manufacturing or visit our website [www.waterloomanufacturing.ca](http://www.waterloomanufacturing.ca)

## • • • SEASON'S GREETINGS • • •

Waterloo Manufacturing Co. Ltd. SHIPPING / RECEIVING  
2014 - Holiday Hours / OFFICE

**Wednesday, December 24, 2014 - Closing at 12 noon**

**Thursday, December 25, 2014 - Closed**

**Friday, December 26, 2014 - Closed**

**Monday, December 29, 2014 - 8 am - 2 pm**

**Tuesday, December 30, 2014 - 8 am - 2 pm**

**Wednesday, December 31, 2014 - 8 am - 2 pm**

**Thursday, January 1, 2015 - Closed**

**Friday, January 2, 2015 - Regular Hours**





BOB STARK  
Rudy R. Bostel  
John Fleming  
Ken Kiefer  
Doreen  
John McKay  
B. McKay  
Robert Brown  
Ann Perry  
J. R. G.  
Brenda Zelen  
Tammy  
Brian Jayles

