Heat Management

Renova Göteborg

Application: Waste to energy boiler
Efficiency solution: Infrasound Cleaning
Cleaning area: Finned tube economizer

General info

Plant: Heat and power plant
Boiler: Roster, Martin GmbH
Fuel: Industrial waste
Capacity: 56 MW_{th}

Installation

Type: 1 x APX2000
Year of installation: 2010

Situation description

The customer used shot cleaning in the economizer to keep the tube package clean. The customer evaluated the shot cleaning and concluded it posed a major safety risk. They decided to replace the shot cleaning system with the infrasound soot cleaning system and the safety risk could then be eliminated.
Since the infrasound cleaner had been installed the shot cleaning was no longer in use, which also led to the following improvements:

- Improved work environment
- Reduced maintenance costs
- Eliminate the need for manual cleaning during the operating season

After the successful installation and implementation of the Infrasound system, the Customer bought two more units for two other boilers.

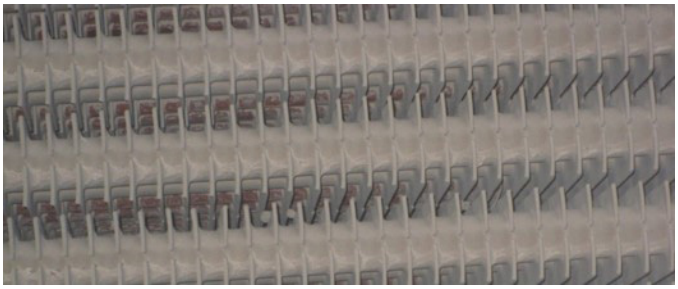


Figure 1. Clean economizer tube package after 4 months of only using Infrasound cleaning.



Figure 2. Picture of the installation showing infrasound cleaner side by side the shot cleaning system

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Results

- **Shot cleaning eliminated in the economiser**, which means less wear at the tube bundle.
- **Improved working environment**, since the shot cleaning is turned off.
- **Reduced operation and maintenance costs** for the soot cleaning equipment.
- **Stable differential pressure**, despite the shot cleaning being deactivated.



Figure 3. Picture taken after removal of shot cleaning system.

Under references at www.heatmanage.com, you can read about our technical and economical results for many of our projects.

We have gathered our knowledge based on our long experience of infrasound technology compared to conventional methods such as steam soot blowing, shot cleaning, compressed air soot blowing and audible sound (sonic or acoustic horns) in several "white papers" available under references.

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