



# contract report



**Customer:**  
Sinking Springs  
Elementary School



**Location:**  
York, PA, USA

**Boiler Type:**  
30HP Boilers

**Burner Model:**  
LCN9  
LCN15

**Fuels:**  
Natural Gas

**Fuel Savings:**  
8-10%

Central York School District (CYSD), a district that operates local public elementary and high schools in York, Pennsylvania required an upgrade to their schools' boiler systems. For Sinking Springs Elementary School, a school which they serve, two 30HP boilers were being fired by old, inefficient burners.

These were mechanical linkage based burners with very limited turndown ratios. These low turndown ratios caused the boilers to dry cycle frequently, leading to higher fuel consumption of the burners and lower combustion efficiency. Hence, the solution to this was to replace these burners.

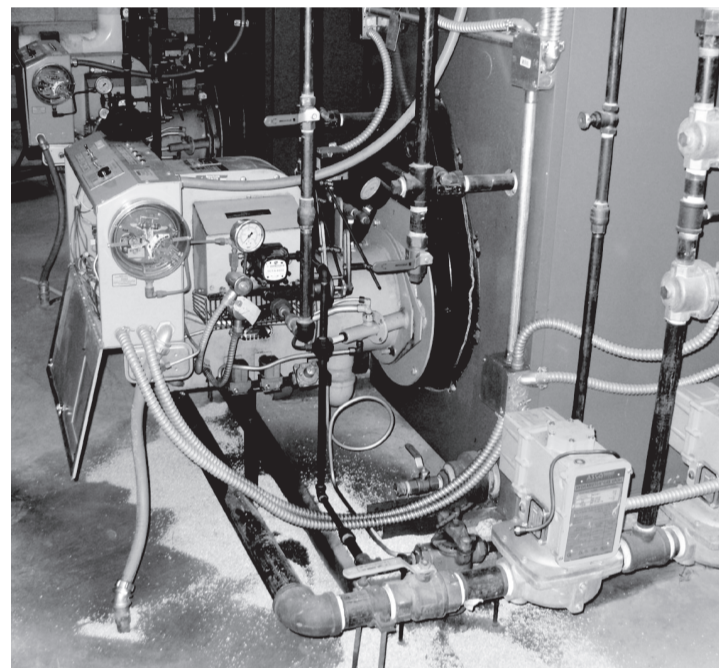
Limpsfield was approached by CSI Service, who undertook this project, to supply an energy as well as cost efficient solution. Subsequently, two Limpsfield pod burners (LCN9 & LCN15), which were integrated with combustion air fans and Autoflame's Mini Mk 7 burner mounted control systems. These controls accurately regulated the mixture of air and fuel in the burner.

These burners have a turndown ratio of 6:1 and came with a performance guarantee to operate at O2 levels of 3% whilst maintaining CO at below 10ppm. These particular models were designed for ease of installation and so the upgrade was complete with minimal downtime.

*"We are very pleased with the Limpsfield and Autoflame equipment, and CSI Services Installation Technicians performed the work on schedule and on budget."*

Harry Eimerbrink, Facilities Director,  
Central York School District

As a result of this project, the burner combustion efficiency was greatly increase, leading to significant fuel savings of between 8 to 10% over the first year. Moreover, the cost of the burners were forecast to be recouped within the first two years.



Before: Inefficient, mechanical linkage controlled burners.



After: Fully modulating Limpsfield burner with precise Autoflame burner controls

For more information on the Limpsfield burner range, please do not hesitate to contact us.



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