



# contract report



**Customer:**  
District Energy Facilities

**Location:**  
Canada

**Boiler Type:**  
Flexible Watertube -  
Hot Water Boilers

**Burner Model:**  
LCN & LCNO Models

**Fuels:**  
Natural Gas &  
Natural Gas / #2 Oil

**Fuel Savings:** 8-12%

### Project Overview

District energy facilities provide reliable hot water heating through underground piping to institutional, commercial and residential facilities from a centralized hot water heating plant. Energy usage and reliability is monitored and scrutinized with the utmost accuracy as the viability of their business depends on it. The Limpsfield burner design in combination with Autoflame combustion control technology is now the standard of acceptance in this industry and has been included in the design engineering for the majority of district energy facilities across Canada.

### Performance Information

The Limpsfield burner allows for low excess air efficient combustion and compliance with stringent low NOX emissions requirements are easily achieved. The Autoflame control system provides precise and repeatable combustion control with continuous flue gas monitoring and O2 efficiency trim ensuring the lowest and safe excess air levels at all times.

### Actual Typical Performance Data

	Amb	Exhaust	Delta	Eff %	O2 %	CO2 %	CO ppm	NO ppm
Open	-	-	-	-	-	-	-	-
High	24 °C	170 °C	146 °C	84.3	2.3	10.7	11.0	27
Inter 1	24 °C	165 °C	141 °C	84.5	2.4	10.6	7.0	27
Inter 2	24 °C	160 °C	136 °C	84.7	2.6	10.6	5.0	29
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
Inter 13	21 °C	101 °C	80 °C	87.1	3.0	10.4	0.0	23
Inter 14	21 °C	92 °C	71 °C	87.5	3.0	10.3	0.0	20
Inter 15	21 °C	99 °C	78 °C	87.2	2.8	10.3	0.0	21

### Savings Data

These equipment advances minimize any potential for down time and ensure the highest level of reliability and efficiency. The flue gas composition and data measured by the Autoflame exhaust gas analyzer is continuously logged via an Autoflame data transfer interface to the central control system. A continuous history of actual boiler efficiency and harmful emissions is available to operating engineers to ensure that peak performance is maintained at all times.

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



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