

# BOILER INSTALL REPORT

144-90 41 St, Flushing NY

## FITCH FUEL CATALYST

**Prepared by:**  
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Dated February 18, 2010 added new fuel information 3/25/10

**DASTEC S.R.L.**

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**Purpose:** Measure effect of Fitch Fuel Catalyst on emissions and burner efficiency.

**Fitch Fuel Catalyst - Model HO-75UL** manufactured by APSI installed by Marlande Heating.

**Property Managers:** Kaled Management Corp.

**Location:** 144-90 41 St, Flushing NY

**Burner type:** IC DEG 63P      **Oil type: #6**

**Test Personnel:** Bob Horstmann,      Marlande Heating Corp

### Record of Events

1. November 5, 2009

Baseline emissions and efficiency readings recorded. System within specification.

Fitch Catalyst installed and system operated for 30 minutes.

Emissions and efficiency data recorded.

2. November 23, 2009

Emissions and efficiency data recorded. Boiler cleaning performed.

Fuel oil flow reduced to reduce flame size by 20%.

3. January 13, 2010

Emissions and efficiency data recorded.

Location	Combustion & emissions measurements	Base data Nov 5th	13-Jan	% Change
Kaled Management	Inlet temp	90.6	75	-17.22%
144-90 41st Street	Stack temp	586.5	550	-6.22%
Flushing NY	Net stack temp	495.9	475	-4.21%
	O2 %	2.7	3	11.11%
	Excess air %	14.8	15	1.35%
	CO2 %	13.5	14.5	7.41%
	CO PPM	41	25	-39.02%
	Efficiency %	82.1	84.6	3.05%
	Smoke	1	0	-100.00%
Prior 12 months vs. install period	Fuel use Gal/ Degree day	6.18	5.47	-11.49%
	Est. fuel savings through March 24		2,338	gallons

### **Conclusions – Results from Fitch Install**

1. Boiler combustion efficiency improved by 3.05%.
2. Smoke reduced from 1 to 0 indicating optimal combustion.
3. Degree day adjusted fuel consumption declined by 11.49%.



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