

BOILER INSTALL REPORT

1115 5th Ave, New York NY.

FITCH FUEL CATALYST

Prepared by:
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Purpose: Measure effect of Fitch Fuel Catalyst on emissions and boiler efficiency.
Fitch Fuel Catalyst – 2 pieces Model FHD5-UL manufactured by APSI installed by Marlande Heating.

Property Managers: Brown Harris Stevens

Location: 1115 5th Ave, NY

Boiler type: 2 x BEST 5C-150

Oil type: #4

Test Personnel: Bob Horstmann,

Marlande Heating Corp

Record of Events

1. November 3, 2010

Boiler cleaned and adjusted for optimal combustion.
 Fitch Catalyst installed and system operated for 30 minutes.
 Emissions and efficiency data recorded.

2. Feb 16, 2011

Stack temperature was high yet boiler was clean so the firing rate was set back 30% to reduce stack temperature.

	Combustion & emissions measurements	Baseline data 11/3/2010	Retest 2/16/11	% Change
Boiler #1	Efficiency %	85.7%	87.8%	2.5%
	Smoke	1	0	-100.0%
Boiler #2	Efficiency %	86.2%	88.1%	2.2%
	Smoke	1	0	-100.0%
2/15/10 to 3/31/10 vs. 2/16/11 to 4/6/11	Avg. Gal/ Degree day	15.10	12.54	-17.0%
Estimated gallons saved			2,748	
Estimated reduced NOX	(annual 2,312)		393	lbs
Estimated reduced PM	(annual 326)		56	lbs

Conclusions – Results from Fitch Install

1. Boiler combustion efficiency improved by 2.5 %.
2. Smoke reduced to 0 from 1 indicating optimal combustion.
3. Degree day adjusted fuel consumption declined by 17.0%, 2,748 gallons for the period Feb/2011 to Apr/2011 compared to Feb/2010 to Apr/2010
4. Estimated NOx reduction of 393 lbs.
5. Estimated Filterable PM reduction of 56 lbs.

