



# FUEL CATALYST

FUEL TREATMENT

## SAME HEAT - LESS FUEL

Fitch For Residential & Commercial Heating Systems



Patent Protected

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Made in USA

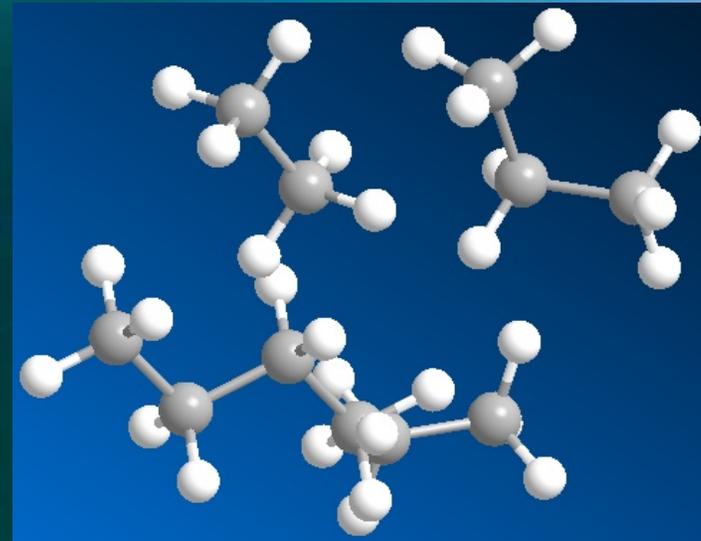
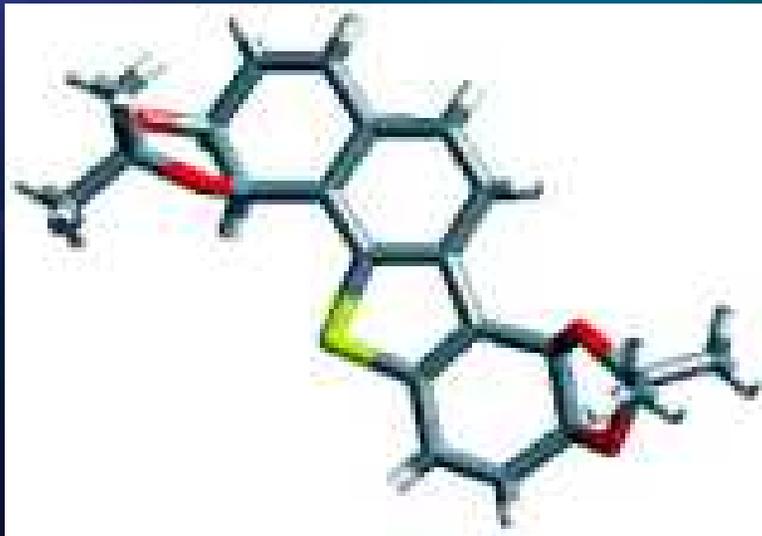


# FUEL CATALYST

## FUEL TREATMENT

### What does Fitch do to Heating Oil?

- Reduces the concentration of Aromatics
- Increases the concentration of Aliphatics
- Releases more inherent btus heat energy





# FUEL CATALYST

FUEL TREATMENT

**Fitch Treated Fuel Produces More Complete Combustion**



w/o Fitch

Visibly brighter flame  
More efficient combustion



With Fitch



w/o Fitch



Visible reduction  
of Soot

w/Fitch



# FUEL CATALYST

## FUEL TREATMENT

**Fitch Increases Stack Temperature**  
allowing the reduction of nozzle size

| Boiler/Furnace           | Burner  | Town           | Nozzle Start | Nozzle End | Percent |
|--------------------------|---------|----------------|--------------|------------|---------|
| American Standard Boiler | Beckett | Guilford       | 1.25         | .85        | 32%     |
| Biasi Boiler             | Beckett | Guilford       | .85          | .65        | 24%     |
| Bryant Warm Air          | Beckett | North Guilford | .85          | .65        | 24%     |
| Buderus Boiler           | Carlin  | Guilford       | .85          | .75        | 12%     |
| Nursery Warm Air         | Carlin  | Clinton        | 2.00         | 1.65       | 17%     |
| Nursery Warm Air         | Carlin  | Clinton        | 1.75         | 1.25       | 28%     |

AVERAGE FUEL SAVINGS + 22.8%

Towns We Serve: Guilford, Madison, Clinton, Branford, North Guilford, North Madison, North Branford, Killingworth and Westbrook.

**FITCH - SAME HEAT - LESS FUEL**



# FUEL CATALYST

## FUEL TREATMENT

- Use Less Fuel (reduce nozzle size)
- Improve Combustion Efficiency
- Reduce Soot & CO<sub>2</sub> (GHG)
- Reduce Overall Boiler Maintenance



Increased stack temperature allows the nozzle reduction





# FUEL CATALYST

FUEL TREATMENT

## Fitch Installation on Home Heating Unit

Must be installed by a licensed burner technician





# FUEL CATALYST

FUEL TREATMENT

## UL Approved Fitch Fuel Catalyst HO Series

UP

HO-5UL

**Fitch**<sup>®</sup>  
FUEL CATALYST

Maintenance-Free Fuel Reformer for Oil Heat Systems  
#6 oil or lighter 60 PSI, 240 F Max

**UL**  
LISTED  
37YC

Advanced Power Systems Int'l Inc. Made in USA & Patent Protected  
[www.fitchfuelcatalyst.com](http://www.fitchfuelcatalyst.com)

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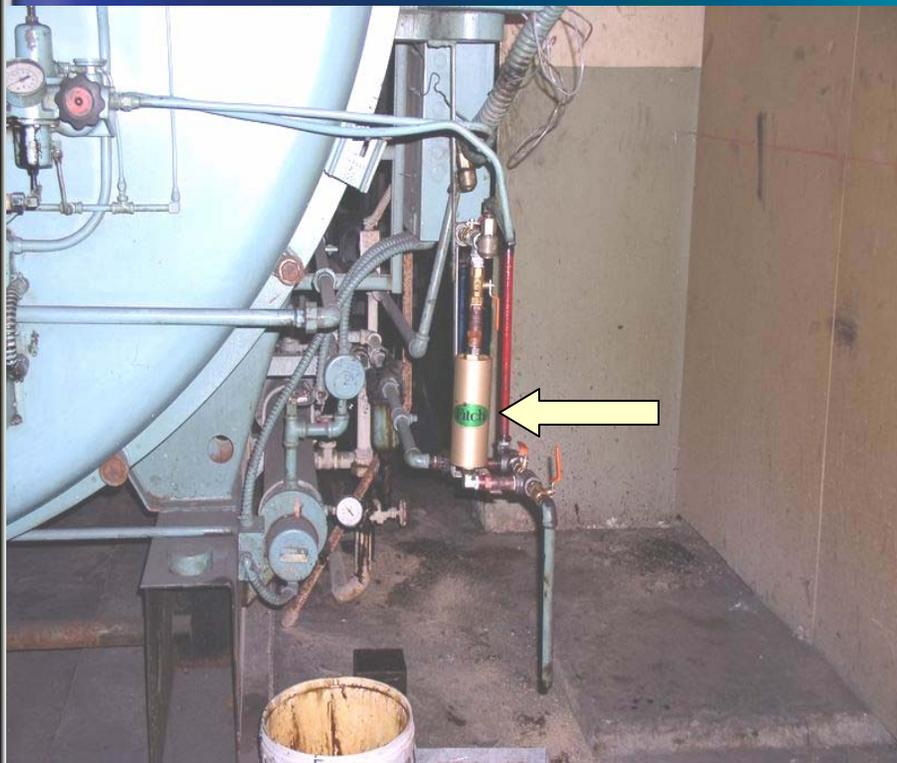


# FUEL CATALYST

FUEL TREATMENT

## Commercial Boiler Application

6.5 Ton Cleaver Brooks





# **FUEL CATALYST**

**FUEL TREATMENT**

## **New York City Housing Authority**

**Boiler: Johnson PFTX-350-31LG15S**

**Burner: Johnson FD69CA400LM**

**Results: 5% Reduction in Fuel Consumption**

**Reduction in Emissions – CO 98%, NOx 15%**

**Increase efficiency: 1.2%**



# FUEL CATALYST

## FUEL TREATMENT

Hse 334 (Furnace) - Average Efficiency





# FUEL CATALYST

FUEL TREATMENT

## Sofitel Seminyak Bali



Accor Hotels & Resorts

**Boiler: 2 x 1 ton Boiler Plant**

**Test Period: 5 Month Test**

**Results: 22% Fuel Consumption Reduction**



# FUEL CATALYST

FUEL TREATMENT



## Grand Hyatt – Hyatt Resort

Reported: **20.38%** fuel consumption reduction

“The Stack Temperatures have decreased, the Smoke Emissions have cleared and the internal sooting levels are only at a fraction of the levels previously experienced”



# FUEL CATALYST

FUEL TREATMENT



## Hotels Using Fitch

Results: **27%** Fuel Consumption Reduction



As a part of the Mandarin Oriental Manila energy savings initiative, Davies Energy System has introduced "Fitch fuel catalyst" on our diesel-fired boilers. Initial payback period was calculated at 2.6 months. It gives me immense pleasure to confirm that we had a payback in 2 months time. This is particularly encouraging not only in terms of fuel costs but also the catalyst usage assists in better fuel combustion, thereby decreasing the carbon soot on the fire tube of the boiler emitting less undesirable gases from fuel composition.