



Evaluation of Device FS-1001.2 to the ASHRAE 103-1993 Standard

Prepared for:

George Prior
President

Green Energy Technologies Inc.
2645 Royal Windsor Drive
Mississauga, ON L5J 1K9
Phone: 1.905.855.3100
Fax: 1.905.855.3110

Technical Report Number

30014730 REV 1

Test Protocol

ASHRAE 103-1993

June 18, 2010

Prepared by:

A handwritten signature in black ink that reads "Judd Smith".

Judd Smith, Technical Manager

Reviewed by:

A handwritten signature in black ink that reads "Rick Nelson".

Rick Nelson, Senior Project Technician



Program Description

Evaluate Green Energy devices on two furnaces using ASHRAE 103-1993 for the test set-up and parameters. Four tests were conducted:

1. 90% efficient furnace without the device
2. 90% efficient furnace with the device

Executive Summary

| Test Condition | Test Results |
|--|--------------|
| 90% efficient furnace without the device | 89.55% |
| 90% efficient furnace with the device | 90.97% |

The conditions observed during testing are contained in this report.



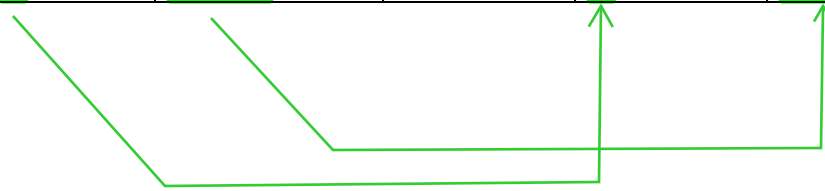
TABLE OF CONTENTS

| | |
|---------------------------------------|---|
| Samples:..... | 4 |
| As Received State | 4 |
| Combustion Results | 4 |
| Test Results 90% without device | 5 |
| Test Results 90% with device | 6 |

| Samples: | | | | |
|-----------------|-------------|----------------|----------|----------------|
| Manufacturer | Listed AFUE | Model/SKU | Quantity | Description |
| Luxair | 90% | G9T10014UPC13A | 1 | UPFLOW FURNACE |

| As Received State | |
|--|---|
| Standard Referenced: Visual Inspection (Include Photograph) Examine each sample for any shipping damage to packaging or product, and check for missing parts and/or accessories. | |
| Manufacturer | |
| Luxair | Unit is used and was supplied by a local HVAC Company |
| Comments: unit was in good working order. | |

| Combustion Results | | | | | | |
|--|----------------|---------|-------------------------|-------------|--------|-------------------------|
| Standard Referenced: Visual Inspection (Include Photograph) Examine each sample for any shipping damage to packaging or product, and check for missing parts and/or accessories. | | | | | | |
| Manufacturer | Without Device | | | With Device | | |
| Luxair | CO2, % | CO, PPM | Steady State Condensate | CO2, % | CO,PPM | Steady State Condensate |
| | 6.6 | 8 | 1.39 lbs | 7.3 | 0 | 2.00 lbs |



Test Results 90% without device

AFUE Report

Project Name GREEN ENERGY 90% Test Date 03/20/2006
Product Description without magnets

Unit Characteristics

Type of Unit: Condensing Furnace
Installation: Indoors
Type of Fuel: Natural Gas
Control Mode: Single Stage Control
Option: No Optional Tracer Gas Test
System Number: 10

Input Values

| TYPE 2 | INST 1 | NSYS 10 | FUEL 3 | CTRL 1 | OPTST 0 | IPURGE 0 |
|---------|--------|---------|--------|---------|---------|----------|
| QP | PE | BE | LJ | DP | TP | |
| 0. | 0.118 | 0.140 | 0.000 | 0.00000 | 0.000 | |
| QIN | XCO2S | XCO2F | TSSSX | TFSS | TRA | |
| 100000. | 0.00 | 6.60 | 0.0 | 129.0 | 79.0 | |
| TFON1 | TFON2 | TFOF3 | TFOF4 | TFOF5 | | |
| 115.0 | 120.0 | 115.2 | 101.0 | 79.0 | | |
| MCSS | QCSS | MC | QC | | | |
| 1.390 | 51514. | 0.466 | 18531. | | | |

Rise Temperature 50°F

-----Calculated Values-----

| | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|--------|-------|
| REFTRM | REFTOA | PHI | CP | CS' | | | |
| 70.00 | 42.00 | 0.70 | 0.24 | 1.220 | | | |
| A | B | CJ | K | HHVA | LLA | | |
| 0.0919 | 10.9600 | 0.00 | 0.00 | 20120. | 9.55 | | |
| A/F | CIID | DF | TON | TOFF | | | |
| 14.450 | 0.900 | 0.400 | 3.870 | 13.300 | | | |
| T1 | T2 | T3 | T4 | ALPHA | | | |
| 0.50 | 2.50 | 1.50 | 9.00 | 0.700 | | | |
| RTS | RTF | S/F | LSSS | EFFYSS | | | |
| 0.00 | 1.75 | 1.00 | 1.67 | 91.5668 | | | |
| QOUT | KSON | KSOFF | KION | KIOFF | | | |
| 92000.00 | 0.031400 | 2.127679 | 0.000000 | 0.000000 | | | |
| TSSS | TAON | TAOFF | RON | ROFF | CS | | |
| 129.0 | 4.526 | 15.059 | 0.854 | 0.883 | 1.740 | | |
| SISO | SISI | SISOX | SISIX | SIFO | SIFI | SIFOX | SIFIX |
| 0.000 | 0.000 | 0.000 | 0.000 | 39.822 | 0.000 | 39.991 | 0.000 |
| D0 | DS | CTON | CTOFF | THFO | THFOX | | |
| 1.000 | 0.000 | 0.700 | 0.816 | 19.045 | 15.635 | | |
| F3 | F4 | F5 | F6 | F7 | F8 | | |
| 0.0000000 | 0.0000000 | 0.1355931 | 0.0080904 | 0.0000000 | 0.0000000 | | |
| LGSS | LCSS | LG | LC | | | | |
| 2.842 | 0.053 | 2.648 | 0.049 | | | | |
| LSON | LSOFF | LION | LIOFF | EFFYHS | AFUE | | |
| 2.506 | 0.991 | 0.000 | 0.000 | 89.550648 | 89.550650 | | |

Combustion Efficiency 89.55%

Test Results 90% with device

AFUE Report

Project Name: GREN ENERGY 90% W MA Test Date: 03/20/2006
Product Description: with magnets

Unit Characteristics

Type of Unit: Condensing Furnace
Installation: Indoors
Type of Fuel: Natural Gas
Control Mode: Single Stage Control
Option: No Optional Tracer Gas Test
System Number: 10

Input Values

| TYPE 2 | INST 1 | NSYS 10 | FUEL 3 | CTRL 1 | OPTEST 0 | IPURGE 0 |
|---------|--------|---------|--------|---------|----------|----------|
| QP | PE | BE | LJ | DP | TP | |
| 0. | 0.118 | 0.140 | 0.000 | 0.00000 | 0.000 | |
| QIN | XCO2S | XCO2F | TSSX | TFSS | TRA | |
| 100000. | 0.00 | 7.30 | 0.0 | 125.5 | 73.0 | |
| TFON1 | TFON2 | TFOF3 | TFOF4 | TFOF5 | | |
| 110.4 | 115.5 | 111.0 | 96.5 | 73.0 | | |
| MCSS | QCSS | MC | QC | | | |
| 2.000 | 51514. | 0.710 | 20040. | | | |

Rise Temperature 52.5°F

-----Calculated Values-----

| | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|--------|-------|
| REFTRM | REFTOA | PHI | CP | CS' | | | |
| 70.00 | 42.00 | 0.70 | 0.24 | 1.220 | | | |
| A | B | CJ | K | HHVA | LLA | | |
| 0.0919 | 10.9600 | 0.00 | 0.00 | 20120. | 9.55 | | |
| A/F | CIID | DF | TON | TOFF | | | |
| 14.450 | 0.900 | 0.400 | 3.870 | 13.300 | | | |
| T1 | T2 | T3 | T4 | ALPHA | | | |
| 0.50 | 2.50 | 1.50 | 9.00 | 0.700 | | | |
| RTS | RTF | S/F | LSSS | EFFYSS | | | |
| 0.00 | 1.59 | 1.00 | 1.60 | 92.8603 | | | |
| QOUT | KSON | KSOFF | KION | KIOFF | | | |
| 93000.00 | 0.028656 | 1.917489 | 0.000000 | 0.000000 | | | |
| TSSS | TAON | TAOFF | RON | ROFF | CS | | |
| 125.5 | 4.853 | 15.605 | 0.797 | 0.852 | 1.590 | | |
| SISO | SISI | SISOX | SISIX | SIFO | SIFI | SIFOX | SIFIX |
| 0.000 | 0.000 | 0.000 | 0.000 | 41.354 | 0.000 | 41.833 | 0.000 |
| D0 | DS | CTON | CTOFF | THFO | THFOX | | |
| 1.000 | 0.000 | 0.694 | 0.810 | 18.477 | 16.738 | | |
| F3 | F4 | F5 | F6 | F7 | F8 | | |
| 0.0000000 | 0.0000000 | 0.1441907 | 0.0081316 | 0.0000000 | 0.0000000 | | |
| LGSS | LCSS | LG | LC | | | | |
| 4.089 | 0.069 | 3.731 | 0.063 | | | | |
| LSON | LSOFF | LION | LIOFF | EFFYHS | AFUE | | |
| 2.194 | 0.950 | 0.000 | 0.000 | 90.973096 | 90.973100 | | |

Combustion Efficiency 90.97%

June 18, 2010

SUMMARY

| Equipment List: | | |
|--------------------------------|-----------|---------------------|
| Description | Barcode # | Instrument Range |
| CO/CO2 Analyzer | | 0-1000 CO/0 20% CO2 |
| Compact Daq temperature Module | | Varies |
| | | |
| | | |

| Revisions: | | |
|------------|-----------|---|
| Rev # | Date | Description |
| REV 1 | 6/18/2010 | Added Combustion, separated the 80% furnace data out. |
| | | |
| | | |
| | | |