

## Results

### DUCT LEAKAGE TEST RESULTS

LgO Services  
 8066 Services  
 San Antonio, TX 78266  
 Phone: 210-386-0973

Date of Test: 6 19 2009 Test File: 201 Sequoia 6 19 2009 5 tons

#### Test Results

|  |  |
|--|--|
| 1. Test Type:  | <b>Total Leakage<br/>(Duct Blaster Only)</b> |
| 2. Test Pressure:                                    | <b>25.0 Pa</b>                               |
| 3. Measured Duct Leakage:                            | <b>1038.0 CFM (195.8 sq. in.)</b>            |
| 4. Duct Leakage as a Percent of System Airflow:      | <b>51.9 %</b>                                |
| 5. Duct Leakage as a Percent of Building Floor Area: | <b>43.4 %</b>                                |

#### Estimated Efficiency Loss from Duct Leakage:

1. Annual System Efficiency Loss: **38.9 % \***
2. Estimated Impact on Equipment Efficiency Rating:

| Air Conditioner SEER |        | Heat Pump HSPF |        | Furnace AFUE |        |
|----------------------|--------|----------------|--------|--------------|--------|
| Rated                | Actual | Rated          | Actual | Rated        | Actual |
| 16.0                 | 9.8    | 8.5            | 5.2    | 95.0         | 58.0   |
| 14.0                 | 8.6    | 8.0            | 4.9    | 90.0         | 55.0   |
| 12.0                 | 7.3    | 7.5            | 4.6    | 85.0         | 51.9   |
| 10.0                 | 6.1    | 7.0            | 4.3    | 80.0         | 48.9   |
| 8.0                  | 4.9    | 6.5            | 4.0    | 75.0         | 45.8   |

#### Additional Information

Duct leakage is often one of the largest sources of energy loss in a house. Leaky supply ductwork causes expensive conditioned air to be lost before it can be delivered to the house, forcing your system to run longer to keep you comfortable.

Leaky ductwork can seriously degrade indoor air quality by pulling pollutants and irritants directly into your house. Leaky return ductwork can also pull moisture into your home, making it feel uncomfortable even when the air conditioning is running.

\* The estimated efficiency loss from duct leakage is based on many assumptions. Actual efficiency losses may differ significantly from this estimate.

## Results

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Date of Test: 10 09 2009 Test File: 201 Sequoia 10 09 2009 5 Tons

#### Test Results

- |  |  |
|--|--|
| 1. Test Type:  | <b>Total Leakage<br/>(Duct Blaster Only)</b> |
| 2. Test Pressure:                                    | <b>25.0 Pa</b>                               |
| 3. Measured Duct Leakage:                            | <b>198.0 CFM (37.4 sq. in.)</b>              |
| 4. Duct Leakage as a Percent of System Airflow:      | <b>9.9 %</b>                                 |
| 5. Duct Leakage as a Percent of Building Floor Area: | <b>8.3 %</b>                                 |

#### Estimated Efficiency Loss from Duct Leakage:

- Annual System Efficiency Loss: **7.4 % \***
- Estimated Impact on Equipment Efficiency Rating:

| <u>Air Conditioner SEER</u> |        | <u>Heat Pump HSPF</u> |        | <u>Furnace AFUE</u> |        |
|-----------------------------|--------|-----------------------|--------|---------------------|--------|
| Rated                       | Actual | Rated                 | Actual | Rated               | Actual |
| 16.0                        | 14.8   | 8.5                   | 7.9    | 95.0                | 88.0   |
| 14.0                        | 13.0   | 8.0                   | 7.4    | 90.0                | 83.3   |
| 12.0                        | 11.1   | 7.5                   | 6.9    | 85.0                | 78.7   |
| 10.0                        | 9.3    | 7.0                   | 6.5    | 80.0                | 74.1   |
| 8.0                         | 7.4    | 6.5                   | 6.0    | 75.0                | 69.4   |

#### Additional Information

Duct leakage is often one of the largest sources of energy loss in a house. Leaky supply ductwork causes expensive conditioned air to be lost before it can be delivered to the house, forcing your system to run longer to keep you comfortable.

Leaky ductwork can seriously degrade indoor air quality by pulling pollutants and irritants directly into your house. Leaky return ductwork can also pull moisture into your home, making it feel uncomfortable even when the air conditioning is running.

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