



## DUCT LEAKAGE TEST

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Eastlake, OH 44095  
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Date of Test: 03-15-2005  
Test File: Example Duct Test

Technician: Al Tibbs

Customer: John Doe Jr  
0404 Anystreet  
Cleveland, OH 44112  
Phone: 216-000-0000  
Fax: 21X-000-0001

Building Address: 0404 Anystreet  
Cleveland, OH 44112

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### Test Results

1. Measured Duct Leakage: **391.0 CFM / 73.8 sq. in. (+/- 0.7 %)**
2. Duct Leakage as a Percent of System Airflow: **21.1 %**
3. Duct Leakage as a Percent of Building Floor Area: **14.0 %**
4. Leakage Split:                      Supply Side: **195.5 CFM / 36.9 sq. in.**  
  Return Side: **195.5 CFM / 36.9 sq. in.**
5. Duct Leakage Curve:              Flow Coefficient (C): **55.7 (+/- 9.0 %)**  
  Exponent (n): **0.605 (+/- 0.028 %)**  
  Correlation Coefficient: **0.99780**
- 6 Test Settings:                      Test Mode: **Pressurization**  
  Test Pressure: **25.0 Pa**  
  Equipment: **Series B Minneapolis Duct Blaster, S/N 1344**  
  Test Type: **Total Leakage**  
  **(Duct Blaster Only)**

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### Estimated Efficiency Loss from Duct Leakage:

1. Annual System Efficiency Loss: **15.9 %**

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### Building and System Parameters:

Floor Area:	<b>2800 sq. ft.</b>	Average Supply Operating Pressure:	<b>25.0 Pa</b>
System Airflow:	<b>1850 CFM</b>	Average Return Operating Pressure:	<b>25.0 Pa</b>
Supply Leakage Split:	<b>50 %</b>	Supply Leakage Penalty:	<b>1.0</b>
Return Leakage Split:	<b>50 %</b>	Return Leakage Penalty:	<b>0.5</b>

Percentage of Measured Leakage Connected to Outside: **100% (391.0 CFM)**

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### Data Points - Data Entered Manually:

Duct Pressure (Pa)	Fan Pressure (Pa)	Fan Flow (CFM)	% Error	Fan Configuration
0.2	n/a			
30.0	110.0	434	-0.2	Ring 1
25.0	90.0	393	1.0	Ring 1
20.0	65.0	334	-1.6	Ring 1
15.0	48.0	287	0.8	Ring 1
0.2	n/a			

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### Comments

Master Bedroom will not cool during hottest weather.

Platform return appears to be drawing in air from attic through wet wall.

Insulation fibers found in return platform.