

Report Prepared For: **Example Customer, 4979 Bristol Industrial Way, , GA**
 Prepared By: **Matthew Holtkamp, Holtkamp Heating & A/C, Buford, GA**
 Date Of Test: **January 29, 2009**

Why Duct Leaks Are The Worst Leaks In Your House

1. They are subjected to much higher pressures than house leaks.
2. Supply leaks lose the most expensive, highly conditioned air.
3. Return leaks suck in unconditioned air from attics, crawlspaces, garages and outside.
4. Duct leaks may cause dust, pollen, mold, moisture and insects to be drawn into your home.
5. Duct Leaks can interfere with the safe operation of fireplaces, furnaces, or water heaters.

How Duct Leaks May Make Your Home Uncomfortable

Calculated loss of air conditioner cooling output on the hottest days:

0.57 tons (29% of your air conditioner capacity).

Calculated loss of furnace output on coldest days:

8,718 BTUs per hour (19% of your furnace capacity).

In addition to less total cooling or heating output, duct leakage often causes individual rooms to be hard to heat or cool.

How Duct Leaks Reduce Your Equipment's Energy Efficiency

Calculated loss of air conditioner efficiency (SEER): 22%

Calculated loss of furnace efficiency (AFUE): 14%

Air Conditioner SEER Rating	Actual SEER Rating	Furnace AFUE Rating	Actual AFUE Rating
16	12.6	100%	86%
15	11.8	95%	81%
14	11.0	90%	77%
13	10.2	85%	73%
12	9.4	80%	69%
11	8.6	75%	64%
10	7.8	70%	60%
9	7.1	65%	56%
8	6.3	60%	51%

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How Duct Leaks May Make Your Home Uncomfortable

Calculated loss of air conditioner cooling output on the hottest days:

0.07 tons (4% of your air conditioner capacity).

Calculated loss of furnace output on coldest days:

1,026 BTUs per hour (2% of your furnace capacity).

In addition to less total cooling or heating output, duct leakage often causes individual rooms to be hard to heat or cool.

How Duct Leaks Reduce Your Equipment's Energy Efficiency

Calculated loss of air conditioner efficiency (SEER): **3%**

Calculated loss of furnace efficiency (AFUE): **2%**

Air Conditioner SEER Rating	Actual SEER Rating	Furnace AFUE Rating	Actual AFUE Rating
16	15.6	100%	98%
15	14.6	95%	93%
14	13.6	90%	88%
13	12.7	85%	84%
12	11.7	80%	79%
11	10.7	75%	74%
10	9.7	70%	69%
9	8.8	65%	64%
8	7.8	60%	59%