



Energy and Comfort Solutions for Your Home

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GOT COMFORT OR PERFORMANCE PROBLEMS?

Homeowners, Homebuilders, HVAC contractors, are you or your clients complaining of any of the following?

- Rooms which are too hot, too cold, or drafty
- Odors or stuffy air
- High energy costs
- Smoky fireplaces
- Allergies
- Mold, mildew, foggy windows, or peeling paint
- Carbon monoxide detectors alarming

All the above are a result of how air and energy flows through the house. Through good building envelope and the HVAC system design we attempt to control the indoor environment and eliminate all the problems listed above. Unfortunately, good designs are not always carried to fruition during construction, and problems arise. Since we cannot see how air flows through the house, the building science community has developed pressure diagnostics to help us understand what is occurring. These diagnostics include measurements of how the operations of fans and combustion appliances affect each other and the blower door and duct blaster tests, which measure leakage of the building envelope and duct system. It is also a good idea to measure airflow from the heating and cooling system to each room and compare this with the flow required by the HVAC system design.

Infrared cameras allow us to see how heat is moving through the structure. Using the camera with the blower door running allows us to also see the air leakage paths. Examples are below.

We also have data loggers with which to record indoor and outdoor temperature and humidity and monitor heating and cooling equipment performance and to see how the equipment and building envelope controls indoor conditions and responds to outdoor conditions.

Building Energy Solutions has the equipment and the knowledge to perform the diagnostics suggested above and more. Please give us a call and see for yourself what our technology can do for you.

Minimization of duct leakage and building envelope leakage is recognized as the critical issue concerning energy consumption. The PNM rebate plan slated to begin January 2005, and will include these and additional items. The planned maximum PNM rebate for these items is 25% of expenses, maximum rebate is \$500.

