



January 2009  
Newsletter

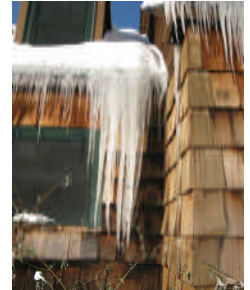
### Noteworthy News

- With the cost of home heating on the rise, more and more home owners and commercial property owners are scheduling a complete energy audit with infrared scan and blower door testing to find ways to lower their energy costs and increase the comfort.
- Combustion safety and radon testing and other air quality issues should be considered when making energy improvements. As a homes natural air change is being reduced to reduce heat loss, the potential radon, carbon monoxide and other pollutants become of concern.
- BMW recently introduced Infrared cameras in their new cars as a standard option. The camera provides a superior early warning system in poor visibility and during night driving.
- Complete duct leak testing using Duct Blaster locates leaks on both the inside and outside of the building envelope.

Infrared Diagnostic LLC  
 978-440-9900 office  
 508-353-2381 cell  
 WWW.InfraredDiagnostic.com  
 info@InfraredDiagnostic.com



*Energy Star Ratings of new construction homes help home builders rise above the rest in a challenging real estate market. Customers are looking for an energy efficient home. Infrared Diagnostic LLC provides a full HERS rating of new construction homes under the Energy Star Program.*



## Infrared Energy Audit

Since 2005, Infrared Diagnostic LLC has been providing infrared building diagnostic services. As home owners seek ways to lower their energy costs while increasing comfort they realize, prior to making energy saving improvements, the importance of having a professional Infrared energy audit.

A professional Infrared energy audit includes infrared scanning of the building envelope, blower door testing and a comprehensive report for the client.

A typical home owner saves between 10% - 30 % of their annual energy costs based on the recommendations from our energy audits. With the increasing cost of energy today, a professional energy audit has a short payback period.

**Ice dams** and icicles are a commonly a sign of heat loss in homes. Often homeowners spend time and money on roof repairs only to find that the ice dams and icicles return with

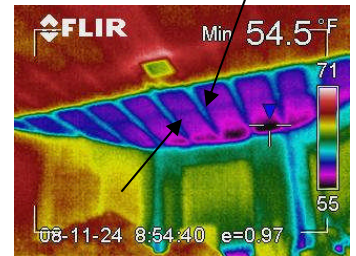
the next snow storm. A complete infrared energy audit often reveals the cause of the problems. The cause may range from HVAC duct system in attic is leaking, recessed lights are leading warm air into the attic, improper air sealing at the center chimney or improper insulation and ventilation in attic.

### Latest News:

As of January 2009 Infrared Diagnostic LLC has added Video Inspections to its diagnostic service. The Video inspection is offered to both residential and commercial customers and provides video inspection of pipe systems, Chimney's, HVAC duct systems, Pest management and building enclosures, etc.. The service provides clear recorded DVD video for troubleshooting purpose of areas that normally would not be visible.

### Newton, MA

This family lived in this home for 18 years without knowing that 1/3 of the master bedroom ceiling had no insulation at all. **The cost of this energy audit paid off BIG!**



### Many home have major air infiltration and heat loss issues. Some of the typical issues are:

1. Stack effect heat loss from missing caulking and sealing at plumbing and electric cut outs, and holes or gaps around the chimney.
2. Fiberglass insulation installed improperly and thus unable to provide a proper air barrier.
3. Leaky HVAC duct system and air handler installed outside the building envelop (attic, crawl-space and garages).
4. Recessed lights with improper air sealing.
5. Rim joist and basement sill not caulked, sealed and insulated properly.

We recommend to all our customers to replace and fiberglass insulation at the basement sill with closed cell spray foam insulation. This provides air sealing and insulation in one product.

## Source of Home Air Leaks

