



*The difference between heat and comfort
With GREEN products from Therma-Ray*

SmartRooms™
Thermal Comfort System
By Therma-Ray

RADIANT HEATING SYSTEMS

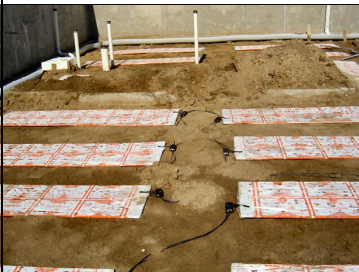
Ceiling Heat

Floor Heat

Floor Warming



6,000 Sq.Ft. (Left) and 5,200 Sq.Ft. Home (Right) with Radiant Ceiling Systems installed in main and upper levels. Earth Thermal Storage (Floor Heating) systems installed in the Basements and Garages and the SmartRooms Floor warming was also installed the main level and upper level bathrooms for even greater personal comfort.



The SmartRooms Earth Thermal Storage (Floor Heating) System is worry and maintenance free creating the most comfortable and energy efficient heating system on the market today. 4"- 8" of sand is placed on top of the heating panels for an even distribution of heat. 100% Heating capacity.

The SmartRooms Radiant Ceiling System is placed above the finished ceiling creating an invisible, silent and, most importantly, comfortable and affordable heating system. Each room can be precisely controlled for even greater savings and individual comfort. Can be used as primary source of heat.



7,200 Sq.Ft. Slab on Grade Home & Garage (Left) and 3,500 Sq.Ft. Geodesic Home (Right) with SmartRooms Earth Storage System installed in both homes and multiple zones for even greater control, comfort and efficiency. No additional heat was necessary in the loft areas due to the even distribution of heat from floor to ceiling.

**Affordable
Energy Efficient
Superior Comfort
Maintenance Free**

Approved as an Education Provider by the (USGBC) US Green Building Council and the (AIA) American Institute of Architects





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RESIDENTIAL / RETAIL APPLICATIONS HOMES, TOWNHOMES, OFFICE BUILDINGS, ETC...

Quality & Pricing

- ◇ 25+ Years of Experience
- ◇ Affordable Installation. Fraction of the cost vs. Hydronic (Tubing) and Ground Source systems
- ◇ Operating costs - Typically 50%-75% less than traditional convection systems and comparable to ground source systems.
- ◇ Qualifies for Off-Peak rates from power companies.
- ◇ Rebates available in many areas
- ◇ Unparalleled Quality (No Manufacturing Failures)
- ◇ 20 Year Warranty (Gypsum Ceiling Panels)
- ◇ Installation price & operating costs will vary depending on customers specifications, use, location, building size, heating requirements and type of heating system
- ◇ Contact your local representative for pricing information and installation requirements



Earth Storage

Radiant Ceiling

Warm Floors

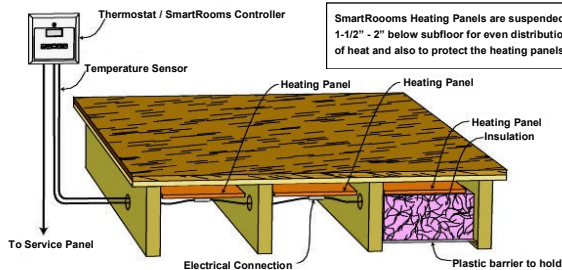
Energy House III

In Elk River, MN



Features & Benefits

- ◇ **Energy Efficient**
- ◇ **Maintenance Free**
- ◇ **No airborne contaminants or dust**
- ◇ **Safe & Clean**
- ◇ **Motionless, Invisible, Quiet**
- ◇ **Precisely controlled in each room.**
- ◇ **Increases property and resale values**
- ◇ **The systems are completely concealed for more decorating freedom**
- ◇ **Electric Radiant Technology provides superior comfort**



SmartRooms Heating Panels are suspended 1-1/2" - 2" below subfloor for even distribution of heat and also to protect the heating panels

Heating Panels can be suspended by drilling a 1/8" - 1/4" hole through the floor joists and then pull a small gauge wire through the holes and tie off on each end. Trusses can be done in same manner or by utilizing plastic or metal strapping

Manufactured By:

Therma-Ray, Inc.

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Floor Joist Heating Option with Radiant Ceiling Panels