



# NELSON MECHANICAL DESIGN, INC.

ABOUT US PLUMBING HEATING HVAC GAS GREEN BUILDING MECHANICAL PROJECTS CONTACT

## Products and Services

### GREEN BUILDING

NEW! Daikin Altherma Heat Pumps

ENV Remote Home Control

LEED for Homes Residence

Net Zero Home, Longview

Net Zero Home, W. Tisbury

Geothermal Heat Pumps

Air to Water Heat Pumps

Air to Air Heat Pumps

Solar Thermal

The NMD Testing Lab

Twenty Panel Solar Hot

Water

Atria Restaurant Solar

Geothermal / Solar Hybrid

Ocean-front Geothermal

Concept

Pond-Based Geothermal

Concept

### PLUMBING

Residential

Commercial

Hot Water Heating

AquaPex

Clivus Composting Toilets

Custom Plumbing Solutions

Fixtures

### HYDRONIC HEATING

Hot Water Boilers

Radiant Floor Heating

Radiant Panels & Towel

Warmers

Hydro Air Systems

Multi Aqua Systems

Hot Water Baseboard and

Kickspace Heaters

"Radiant cooling works in Edgartown home" - August 2008



## Radiant cooling works in Edgartown home

Business Briefs, Published August 28, 2008

Nelson Mechanical Design (NMD), a Vineyard-Haven based "green" mechanical engineering company, recently announced the successful completion of the first series of trials of a radiant cooling system installed in an Edgartown residence.

According to a press release from NMD, the new cooling system is a first of its kind on Martha's Vineyard. It works by sending cooled water through radiant tubing in the floor, which in turn helps cool the house.

The use of radiant cooling is relatively new in residential buildings and offers the potential for energy savings when compared to a conventional air-conditioning system. The National Association of Home Builders Research Center's website estimates the use of radiant cooling saves approximately 70 to 80 percent of the energy used by a conventional air-conditioning system to power fans to deliver cooled air, the NMD press release notes.

The radiant cooling system utilizes a direct digital control (DDC) system, which closely monitors and controls the temperature of the water sent through the radiant tubing. The DDC system helps maximize the cooling effect from the floors while avoiding the possibility of condensation developing on the cooled surfaces.

**RINNAI HEATING  
HVAC**

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**Ductless Systems**  
**Ductless Multi Aqua Heating  
and Cooling**  
**Fresh Air Exchange**  
**Indoor Air Quality**

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MECHANICAL DESIGN**

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**Energy Audit**  
**Schematics and Specs**  
**CAD Drawings and Design**

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The DDC system can be connected via the Internet to any computer, which allows for remote monitoring and control, as well as tracking energy usage.

For more information, contact NMD at 508-696-3120.