



SmartRooms



Cost Comparison

SmartRooms Floor Heat (Under Concrete)

VS.

Electric Hydronic Boiler System (Hot Water Tubing)

SmartRooms Saves Over 55% per year

Case study involves similar style buildings located within 1 mile of each other

Building #1 - Installed SmartRooms Floor Heating Panels 8" below the concrete slab
- No insulation below heating panels



SmartRooms FH Specifications

- **7,260 Sq.Ft. Maintenance Facility**
- **Installation Time - 8 Hours**
- **Electric Rate - \$.05/Kwh**
- **No Maintenance**
- **Minimal Mechanical Room Space**
- **Kwh Used - 49,139**
- **Total Cost To Operate - \$2,456.95**
- **Cost per Sq.Ft. to Operate - \$.034**

Building #2 - Installed tubing placed directly below the concrete slab on 2" of styrofoam insulation



Hydronic Tubing Specifications

- **5,280 Sq.Ft. Maintenance Facility**
- **Installation Time - 32 Hours**
- **Electric Rate - \$.05/Kwh**
- **Yearly Maintenance and Repair**
- **Considerable Mechanical Room Space**
- **Kwh Used - 79,682**
- **Total Cost To Operate - \$3,984.10**
- **Cost per Sq.Ft. to Operate - \$.075**

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Thermal Comfort Systems
by *Therma-Ray, Inc.*



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