



**INFLOOR  
HEATING  
SYSTEMS**  
BRINGING COMFORT  
TO YOUR HOME

**HYDRONIC HEATING SYSTEMS**

# HYDRONIC HEATING SYSTEMS



Infloor heating heats your house without pressuring the air within the house, reducing your heat loss and saving you money in operating cost.

## WARMTH

Have you woken up on a cold winter day and dreaded stepping out onto that cold floor? With Infloor heating, you will never have to experience this again! Since the floors are the part of your house that is heated, they are always warm and comfortable.

## ZONE CONTROLS

Infloor heating allows you to have several zones in your house that each can have their own temperature. Why heat the basement to the same temperature as your living room if you are never down there?

Zone control saves you money and makes your house more comfortable. Unlike traditional forced air systems that typically have 1 thermostat for heating the entire house, which can lead to hot and cold rooms, Infloor systems can be zoned to fit your needs. Infloor design associates often use Daytime/Nighttime zoning schemes, which allow the daytime areas to be kept a little warmer temperature than the sleeping areas.

## EVEN HEAT

Heat the room evenly and distribute the heat better where you live. With Infloor heating, the whole room is heated evenly from the floor up. No more having to move in a room to find the warm spot on a cold day!

## SYSTEM DURABILITY & MAINTENANCE

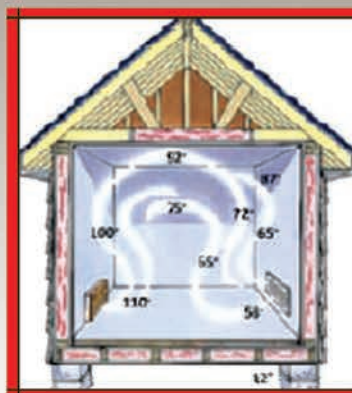
Infloor Heating systems are almost maintenance free. There are no filters to change, no vents to clean. All components sold by Infloor are of the highest quality available on the market today. Typically a system will run for many years with little maintenance. Boiler maintenance is required by several manufactures to maintain the equipment and efficiency as well as the warranty.

## COST SAVINGS

Typically, an Infloor system is slightly more expensive to have installed than a normal heating system. However this additional cost is made up with energy savings in the first 8 to 10 years. Comfort of a properly installed Infloor heating system cannot be compared to any other heating system today. Also it is easy to integrate solar thermal heating with your new, or existing Infloor system adding a new dimension of savings!

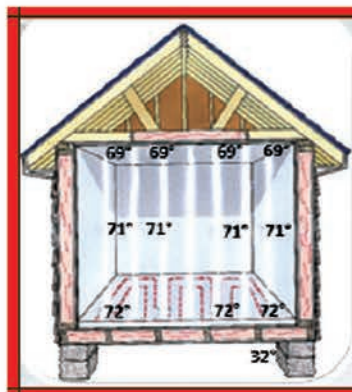
## ELIMINATES HOT WATER HEATER

The boiler that heats the water for your flooring also heats your domestic hot water. This saves the initial operating cost of a water heater, provides energy efficient means of heating the water and allows for solar to be easily integrated into your water heating.



## WITHOUT INFLOOR

*Erratic temperature fluctuations and wasted heat energy at the ceiling.*



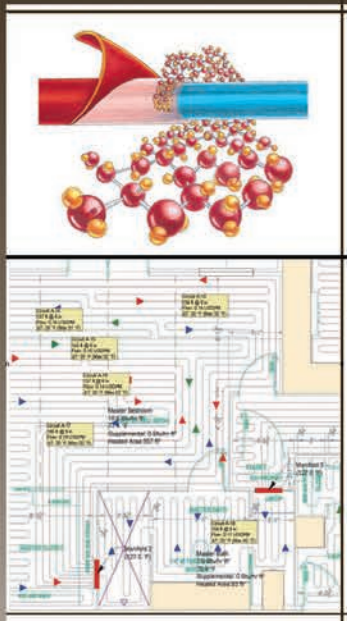
## WITH INFLOOR

*Constant, even heat, concentrated at the floor for greater comfort.*





# INFLOOR PRODUCT ADVANTAGES



Infloor only sells the highest quality PEX, BPEX and PEX\_AL\_PEX tubing. A process called 'crosslinking' creates a bond between individual molecule strands, resulting in a tube with maximum temperature and chemical resistance. Infloor offers a selection of manifolds to meet your heating needs. From basic copper manifolds, all the way up to premier brass manifolds, we have the product you need. Contact your Infloor representative for more information and which product is right for you.

To make certain your system is piped and wired correctly, Infloor offers custom mechanical room boards which have all of the required components pre-piped, wired, and mounted on a backer board. All the contractor needs to do is pipe from the boiler to the mechanical board and attach the supply and return runs from the remote manifolds to the mechanical board. These mechanical boards assure the installer that the system has been piped and wired correctly, and allows for a very clean installation of the system.

To make sure your system is optimized Infloor recommends that you have your new Infloor Systems designed by an Infloor representative who will assist you in the best product selection for your radiant application.

## QUESTIONS AND ANSWERS

♦ We're building a new home with Infloor heating and wood flooring in most of the main rooms, but we are not sure if laminate, or solid hardwood floors would be better. How would you recommend installing either of these options?

With Infloorboard, installation is a snap with either option. Solid hardwood floors can be nailed through Infloorboard into the subfloor below for attachment, just like you were installing them into the sub floor. For laminate floors we recommend a floating floor type installation which has no attachment to the flooring below. When attaching a hardwood floor to a Thermafloor (gyp-crete) system we recommend a sleeper type system, where 2 x 2 or 2 x 4 sleepers are installed running perpendicular to the hardwood floor for nail down attachment of the hard wood floor, prior to pouring the Thermafloor.

♦ Is there any special considerations when using Infloor heating and carpet?

Carpet and Infloor work very well together. The only thing to do differently then you normally would, is to use a low R-value carpet cushion and low R-value carpet.

♦ What kind of construction applications may Infloor heating systems be installed in?

Tubing may be installed in any kind of application, whether it is directly in concrete, Infloorboard, stapled to the floor and covered with an underlayment, staple underneath the floor with aluminum emission plates, or tile bed.

♦ Our designer has selected a variety of stone floor coverings, none of which are as smoothly finished as traditional ceramic, or tile. We love the look, but are they compatible with Infloor?

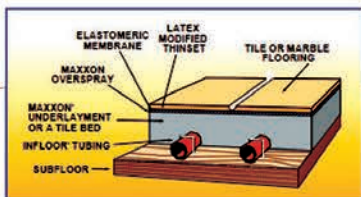
Feel free to be as creative as you and your designer want to be. All stone type floor coverings, from traditional ceramic and marble to rough cut slate and granite work well with Infloor heating. Because they feel cold to the touch in the winter, they make Infloor's benefits the most obvious of any floor coverings.

♦ How does Infloor work with air conditioning?

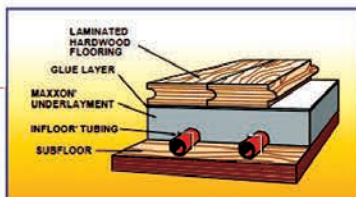
Most often a separate air conditioning system is installed. This could be a simplified central system, or a split system with strategically placed units. Placing the registers in the ceilings, where they should be for air conditioning, will help reduce energy costs in the summer.

♦ What are the possibilities of my Infloor system freezing? Do I need antifreeze?

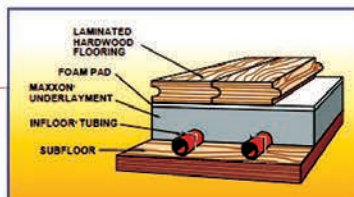
Usually antifreeze isn't necessary if this is a year round residence, unless the system is shut off for an extended period of time in the winter. For snow melt systems however, anti freeze is required. Your Infloor representative will be able to look at your system's unique needs and determine whether the system needs antifreeze or not.



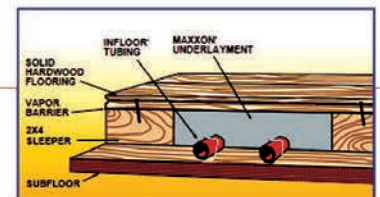
Tile over Infloor Heating



Floating Wood Floor over Infloor Heating



Laminated Wood Floor over Infloor Heating



Wood Floor Sleep System over Infloor Heating



# INFLOOR PRODUCT ADVANTAGES

Just because it is in the floor, doesn't mean it is Infloor! Many companies sell similar systems that will meet your heating needs. At Infloor, we are committed to using only the highest quality products and installers to insure that you are completely satisfied with your heating system.

We were one of the first companies that started selling radiant floor heating systems in the early 80's and continue to lead the market with quality and new innovations in Infloor heating. We have experienced technical representatives that work with your contractor to make sure your system is installed properly and will perform well for years to come. When you are at home, your heating system contributes to your comfort and you would spend any amount of money to fix it. Why would you consider any other type of system, but the best?

With today's environment of energy uncertainty and rising costs, solar technologies are a hot topic for the homeowner. Infloor is proud to offer solar collectors to integrate into our existing Infloor heating technology. These solar collectors can provide your domestic hot water, a portion of your space heating, or both!



## SOLAR ASSISTED SYSTEMS

Solar assisted radiant floor systems are becoming more popular when utilizing solar hot water collectors. These types of systems have many design characteristics that must be considered prior to construction. Infloor will assist our customers with this type of design from heat loss calculations, loop layout, equipment selection, mechanical room design, and solar selection.

The solar assisted systems will work on the basic principles of applying the solar energy to the domestic hot water production first until satisfied and then switching over to the Infloor heating system and using the solar energy to assist with space heating. These systems will assist in the performance of the heating system, however, will not eliminate the heat source.

A control strategy should be used incorporating outdoor reset control which will allow lower water temperatures to be used for space heating on milder days, which will save you money and allow the solar to provide more energy to the system.





# INSTALLATION MADE SIMPLE WITH INFLOORBOARD

If you are looking at remodeling your house, you can add the comfort and convenience of Infloor heating easily with Infloorboard. Infloorboard is a 5/8" thick board that has the path for the tubing cut into it. Installation is simple; just glue, staple and lay the tube in the board. CAD drawings can be provided upon request.



## CONTACT US TODAY

Contact your local Infloor Provider for a free consultation and quote. One of our expert representatives will be happy to answer any questions you may have.



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