INFLOOR®
HEATING SYSTEMS

Your Hydronic Heat Provider Since 1980

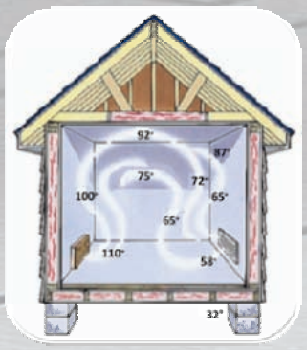
Providing Infloor Heat and Kingspan Solar Heating Solutions

Infloor Heating Advantages

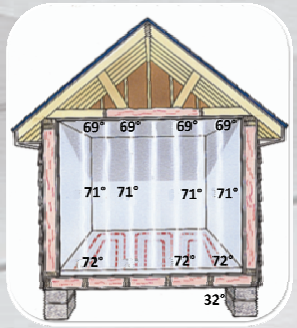
Reduced Heat Loss

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

Even Heat



With heating forced air, the hottest air rises to the ceiling, forcing the furnace to work harder to heat the air where you live. The temperature at any point in a room is dependent on how close you are to a register, or a vent. These hot and cold spots are just a characteristic of forced air systems.



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!

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. Traditional forced air systems dictate that when the temperature around the thermostat becomes cold that the entire system is turned on and warms the house. This creates rooms where the temperature is warmer or colder than others that you can't control.

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.

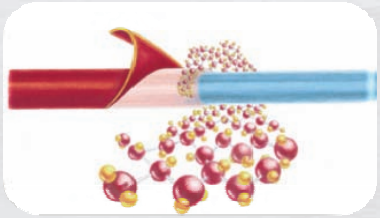
Cost Savings

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!

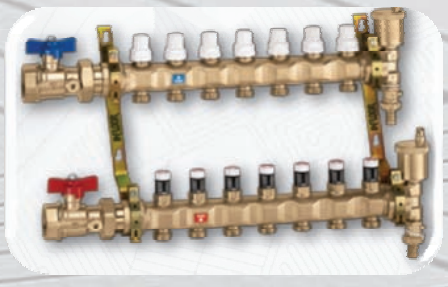
Eliminates Hot Water Heater

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.

Infloor Product Advantages



Infloor only sells the highest quality PEX, BPEX and PEX_AL_PEX tubing. A process called 'cross linking' 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.

For the ultimate in controllability for your Infloor heating system, Infloor makes custom controllers. The controllers allow you to control the temperature and flow in up to five zones. All controllers are UL listed, put through a series of tests to make sure they function properly and are made in the USA.

To make certain your system is optimized, Infloor offers custom boards that have all required components pre-plumbed. All your contractor needs to do is run the pipes, connect the wires and connect the marked connections and your system is ready to run.

Questions & Answers

- **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. Talk with your Infloor representative about ordering this product.

- **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.

- **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.

- **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 rep will be able to look at your system's unique needs and provide and answer if you think the system may freeze.

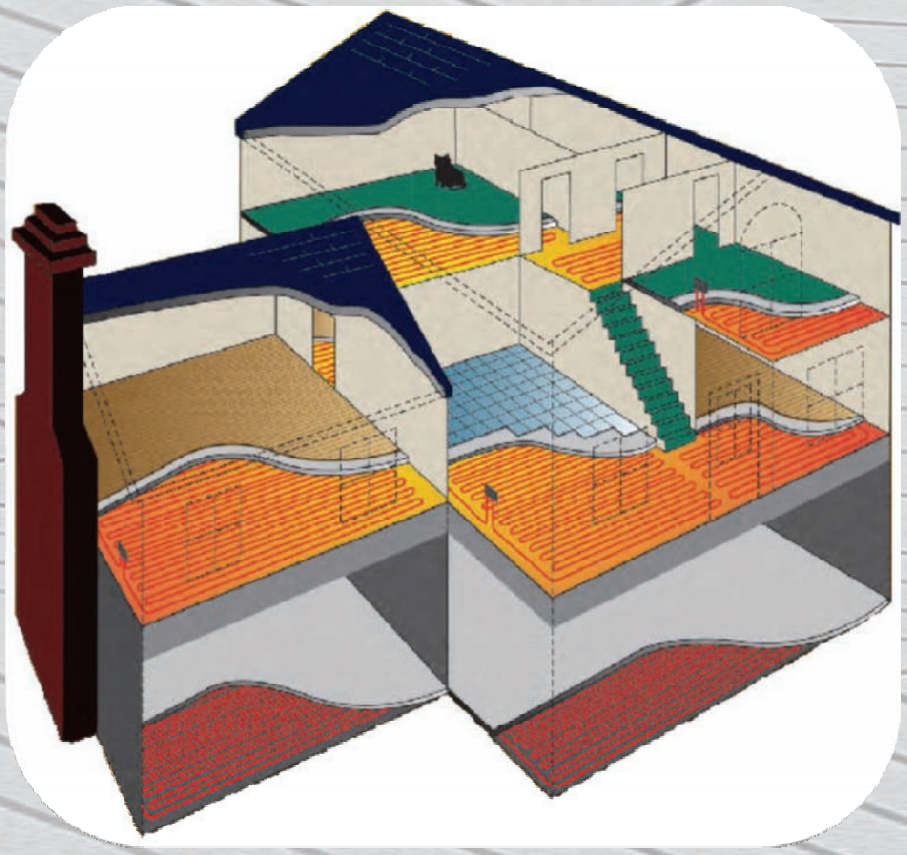
- **What kind of construction applications may Infloor heating systems be installed in?**

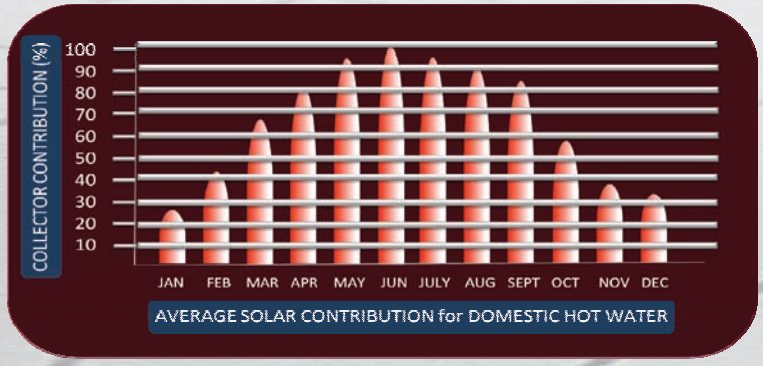
  Tubing may be installed in any kind of application, whether it is directly in concrete, Infloorboard, stapled to the floor and covered with an underlayment, staple underneath the floor with aluminum emission plates, or tile bed.

Advantages of Infloor Brand Heating Systems

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 In-floor 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. Consider all the time you spend in your house and how much the heating system really contributes to your comfort. It is the one part of your house that you spend whatever it costs to fix when it breaks in the winter! Why would you consider any other type of system, but the best?



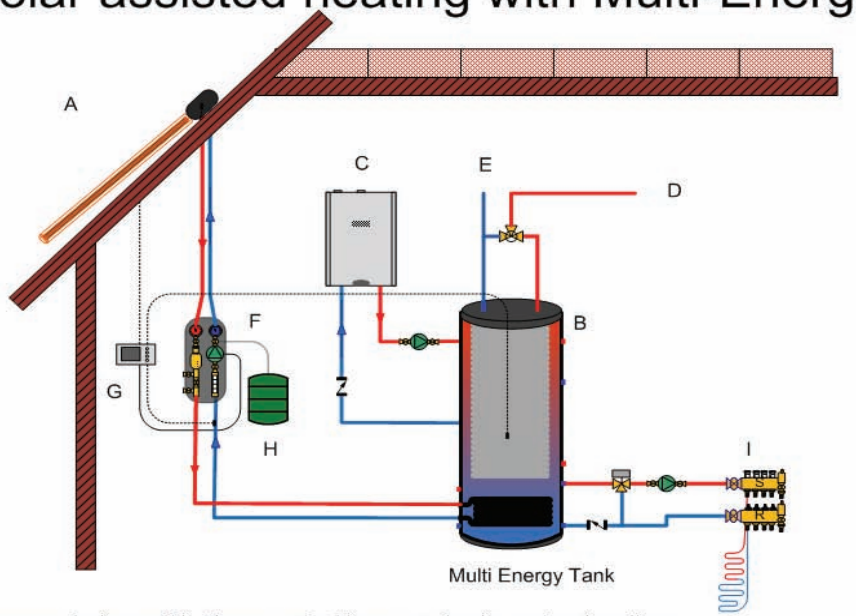


With today's environment of energy uncertainty and rising costs, solar technologies are a hot topic for the homeowner. Infloor is proud to offer Kingspan solar collectors to integrate into our existing Infloor heating technology. These tubes can provide your domestic hot water, a portion of your heating,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

How it works: Kingspan solar evacuated tubes have a glass enclosure around the solar collector inside the tube. The volume in between the tube and collector is at a very high vacuum, creating a barrier between the collector (which gets hot) and the cold air on the outside. Much like a Thermos, this doesn't allow convective heat transfer from the hot collector to the cold weather outside. The heat created is used to boil water inside the capillary tube of the collector which rises to the top of the condenser head. A water antifreeze mixture flows around the condenser head at the top of the tubes, transferring the heat from the collector to the hot water system. The hot water from the collectors is then stored in a tank and can then be used for either heating the house, or for domestic hot water.

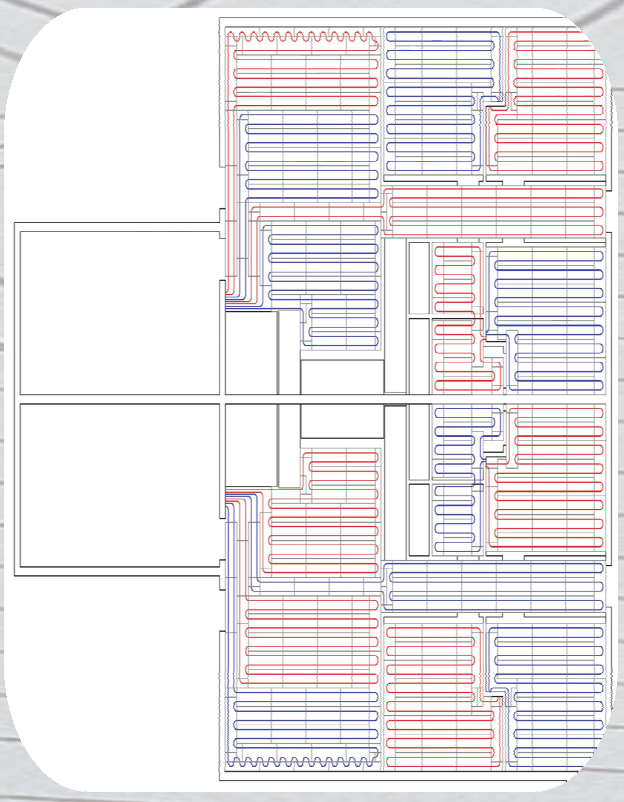
Because of the unique technology in Kingspan solar tubes, they produce hot water on sunny days, cloudy days, and even in extreme cold. Other types of solar collectors produce very little heat on cloudy days and even less when it is very cold outside. 2,000,000 Kingspan solar tubes are currently in use in over 40 countries, some of which have operated for over 20 years!

Solar assisted heating with Multi-Energy Tank

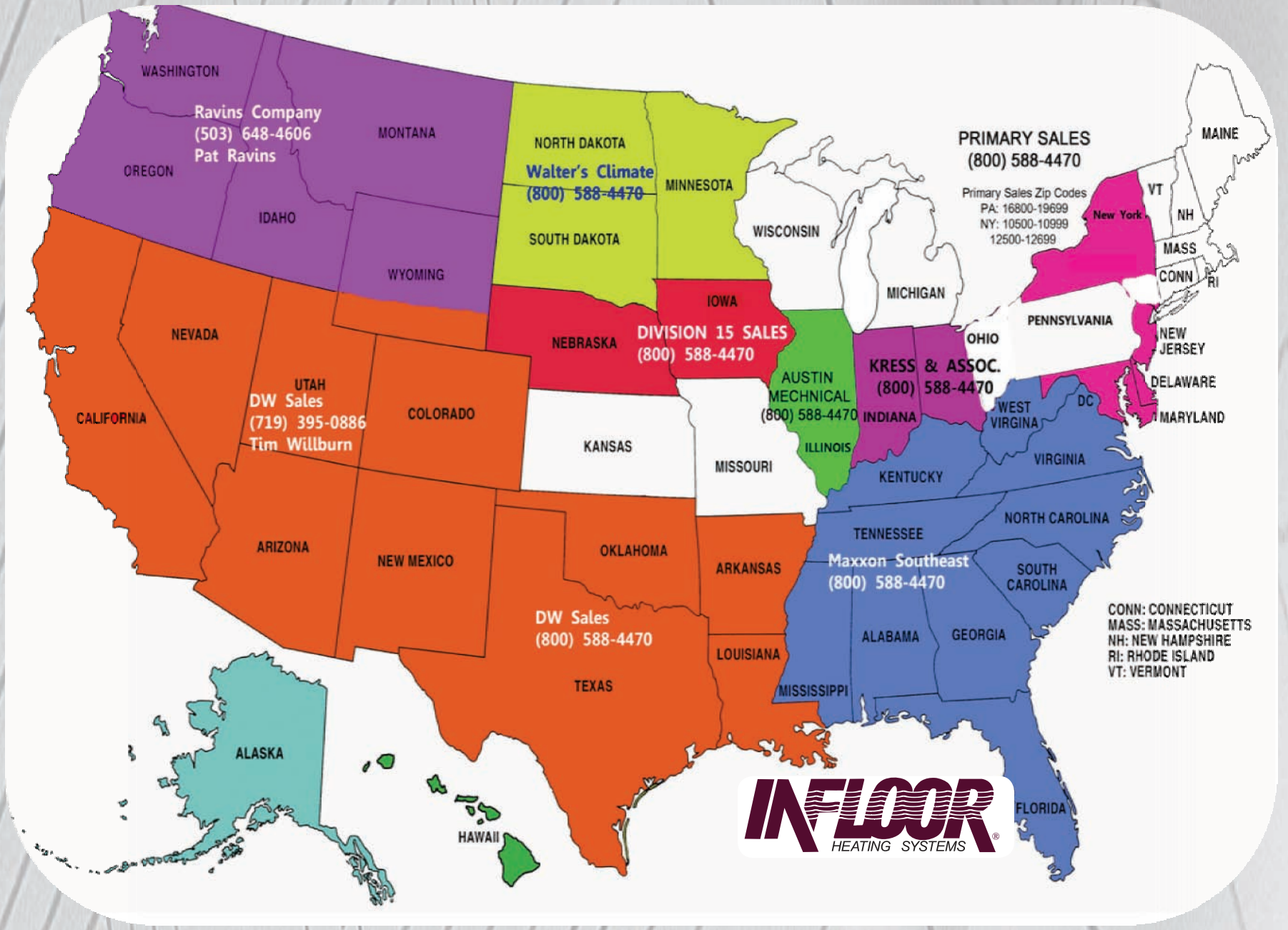


A	Solar collector on sloping roof kit. The connection kit connects the pipe work to the collector
B	Multi Energy tank in tank design with additional connections for boiler backup, electric back up, and radiant floor heating.
C	Boiler or other space heating device
D	Hot water out
E	Cold water in
F	Pump station used to circulate solar fluid between the collector and the tank.
G	Controller uses temperature sensors to monitor heat differences between the collector and the water in the tank and switches the pump on and off accordingly
H	Expansion tank used to absorb the expansion of the solar fluid as the temperature rises in the collector and tank.
I	Radiant floor heating system assisted by the solar energy

Installation Made Simple with InfloorBoards



If you are looking at remodeling your house, you can add the comfort and convenience of Infloor heating easily with Infloorboard. Infloorboard is 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 for a nominal fee.



For a representative near you please call (800) 588-4470 www.infloor.com info@infloor.com