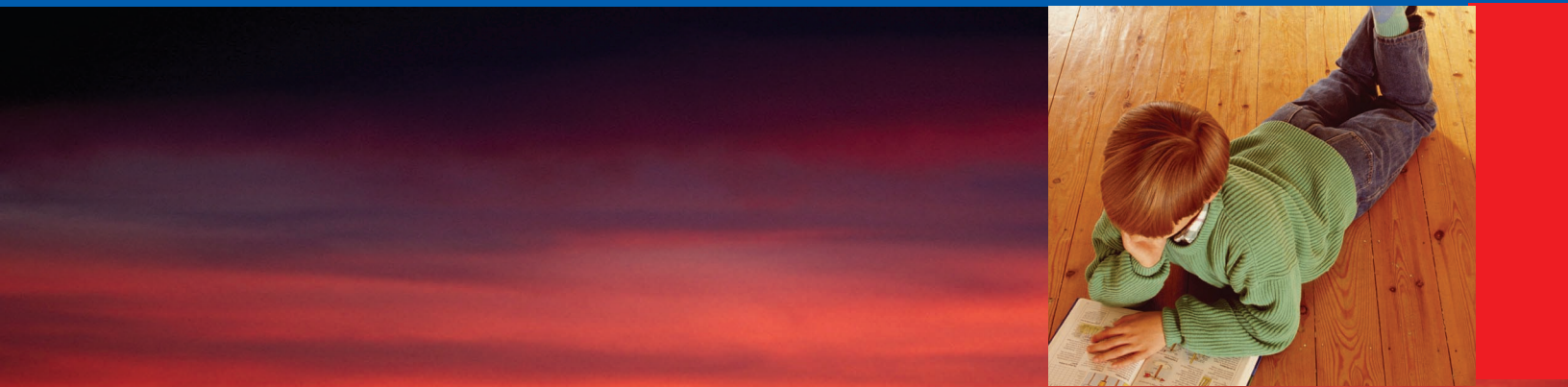




A better approach to

Radiant heating

and snowmelting products





The ultimate in

Heating systems.

AquaHeat hydronic radiant floor heating

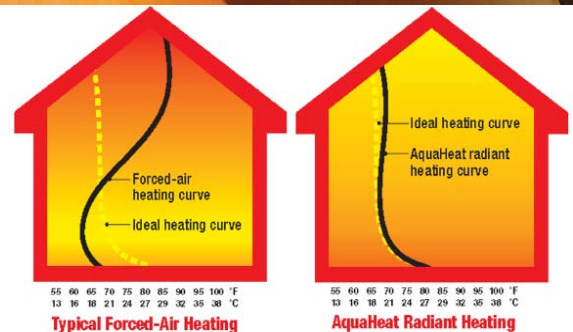
Imagine standing barefoot outdoors on a crisp sunny autumn day. The sidewalk that's been absorbing the sunlight radiates soothing warmth. That's one way to describe the comfort enjoyed by users of AquaHeat hydronic radiant floor heating. The system doesn't move air; it actually radiates heat, precisely as needed.

Homeowner's popular choice

The number one reason consumers choose AquaHeat hydronic radiant floor heating is comfort.

The system eliminates chilly drafts. There's no need for fans to move air around.

In today's new home designs, hydronic radiant floor heating makes even more sense. Rooms (bathrooms included) are larger, with higher ceilings and lots of tile and other cold surfaces. With forced-air and radiator heating, these spaces generally feel cold, that's not a problem with radiant floor heating; even the hard surfaces will feel warm to the touch.



The floor is the source of comfort

Imagine a home with no drafts, fan noise or hot or cold spots! Every inch of floor in every room is warm to the touch. The system allows great flexibility when it comes to furniture arrangement, too. With radiant floor heating, furniture can be placed anywhere because there are no grills or radiators.

The system allows great flexibility when it comes to furniture arrangement, too. With forced air or radiators, occupants must strategically place their furniture to accommodate grills or radiators, with radiant floor heating, furniture can go anywhere because there are no grills or radiators.

The Basics

At its most basic, hydronic radiant floor heating involves heating a structure by pumping warm water through specially designed tubing laid under or within the floor. The heat in these tubes radiates to the surface and rises evenly throughout the room above. The surface itself stays comfortably warm to the touch. This tremendously efficient heat transfer results in even and consistent heating.

Warm air rises, of course, and collects near the ceiling. In a home heated by convection, ceilings are always warmer than floors. With radiant floor heat, the opposite is true. The floor is warm, and so is the air up to the height sensed by the occupants. Thus, people within the space feel much more comfortable at lower temperature settings because the heat is coming from the floor.

AquaHeat PEX tubing which delivers the heat can be installed several ways, on subfloor covered with a flowable lightweight concrete or using the floorpanel "dry above" method, modular radiant retention panels. It can also be installed in the lower level concrete floor, or underneath the joist space - which is called a "dry" or "staple-up" installation.

The system allows any floor surface to be placed above it, including carpeting, ceramic tile, vinyl flooring, and wood.

Comfortable And Efficient

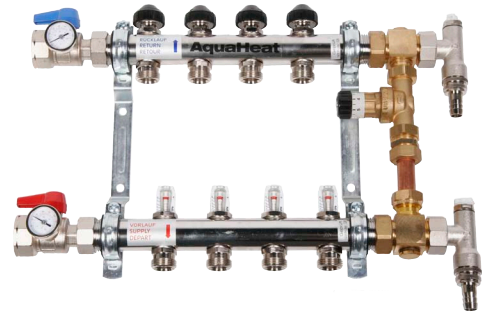
The surface temperature of the floor is designed to be no higher than 88°F, so it's always comfortable to walk on. AquaHeat operates at the lowest possible water temperature to heat the structure. This level provides the most efficient transfer of energy. There are no wide temperature variations that you experience with forced air or radiator systems. It's also quiet! There are no noisy fans or radiator expansion noises to contend with, just quiet comfort. Energy efficiency is one of the system's strong points because the system delivers heat where it's needed, with little waste. A thermostat can be put in every room of the house, and unoccupied rooms can be set back to save energy.

Think "Radiant", Like The Sun

Radiant floor heating systems can be powered by various heat sources, high efficiency boilers, special water heaters, geothermal systems, solar collectors therefore no furnace is needed. Often, the floor heating system can be combined with high-velocity air conditioning, and a potable hot water delivery system for cooking, bathing and laundry.

Many homes today have one or more vaulted ceilings. With forced-air or radiator systems, these larger open areas require ceiling fans to blow air up or down, depending on the season. But with a radiant floor system warm air is already right where you want it.

Think of it this way: when you're sitting down to watch TV. If you have a forced-air or radiator system, often you must turn the heat up to be comfortable; with radiant heat, you can actually turn it DOWN because you're closer to the floor, which is the source of heat.



Energy Efficient Pin Point Control

Control determines the success of a radiant system, and AquaHeat's integrated ProZone control system and flow-balancing manifolds establish the control. Now combine modern high-efficient heating equipment with the AquaHeat system. The result is affordable, reliable, cost efficient heating where you want and when you want it.

Our Company, Our Product

AquaHeat is a leader in the area of Hydronic radiant heating systems. Systems being the key word. AquaHeat's system and user-friendly approach are a result of the expertise of its founders. Their combined expertise developed AquaHeat's integrated modular product offering.

It's Under ProZone Control

Control determines the success of a hydronic system, and AquaHeat's integrated ProZone control system and flow-balancing manifold establishes that control.

Balancing of a radiant system is critical, especially when you have a complex layout, with different zones and varying loop lengths. The ability to adjust and balance each loop is vital to the total system performance. AquaHeat's system is engineered to control and operate every component independently. When the system is in use, the ProZone control system is the "brain" of the various room thermostats. By simply adding a ProZone setback module you can completely automate your entire system.



Radiant floor heating is the Ultimate in comfort

In The Zone

A zone is an area of thermostatic temperature control, which may consist of a single room, a single level, or other designation. A typical installation will have a number of zones depending upon the system design, which will ensure the ultimate in comfort and efficiency. The complete manifold system and control system occupy a very small area.

Contractor-Friendly

Our special AquaHeat LoopCad 2010 design software specifically plans and prices out each layout for your project. Installation is easy, and is usually done by the plumbing and heating contractor. We have developed installation tools that make it easier for the contractor to put in our products and AquaHeat provides installation assistance and guidance when necessary.

Cost Considerations

A radiant floor system may have a higher initial cost compared to traditional hot water or forced-air heating. However, cost of ownership helps offset this initial outlay. Operation of a radiant system can be significantly less than other heating systems, with substantially greater comfort. When properly designed and installed, there's a potential for great energy savings.

Case studies have been done where three types of heating systems were compared: conventional gas forced-air, and infrared, and hydronic radiant heat. The projected energy usage to heat the space was 99,000 BTUH for the forced-air system, 66,000 BTUH for the infrared system, and 33,000 BTUH for the hydronic radiant system.

You will have lower energy and operating costs, and at the same time be more comfortable with hydronic radiant floor heating.

Look to the complete family of **ComfortPro products**



ComfortPro Systems LLC
Phone: 1-800-968-8905
www.comfortprosystems.com

On The Job

Floor heat systems are in world wide use. In fact, radiant heating systems have been the preferred heating method throughout Europe for over 30 years. AquaHeat stands behind its system with a 25-year warranty on all tubing which incorporates a 10-year consequential damage warranty. An AquaHeat system delivers the ultimate in comfort, plus it's energy efficient, safe and very reliable.

Past And Future

Radiant heating goes all the way back to the days of the Romans, and it's considered a benchmark heating system in the world today. Current technology provides the product and equipment needed to make it a success.

Radiant floor heating is the system of the future, "It's a system that is, without question, the best and most comfortable you could possibly install." At AquaHeat, we're able to make the best more affordable, so that everyone can enjoy this kind of system.



Pex pipe evenly laid and locked in place
The final step is to cover the tubing with a lightweight concrete, creating a thermal mass that will radiate the heat into the room. The system allows any floor surface to be placed above it, including carpeting, ceramic tile, vinyl flooring and hardwood.

Representative

