



# Hydronic Radiant Heating Systems: Efficient Comfort with Radiant Panels & Manifolds

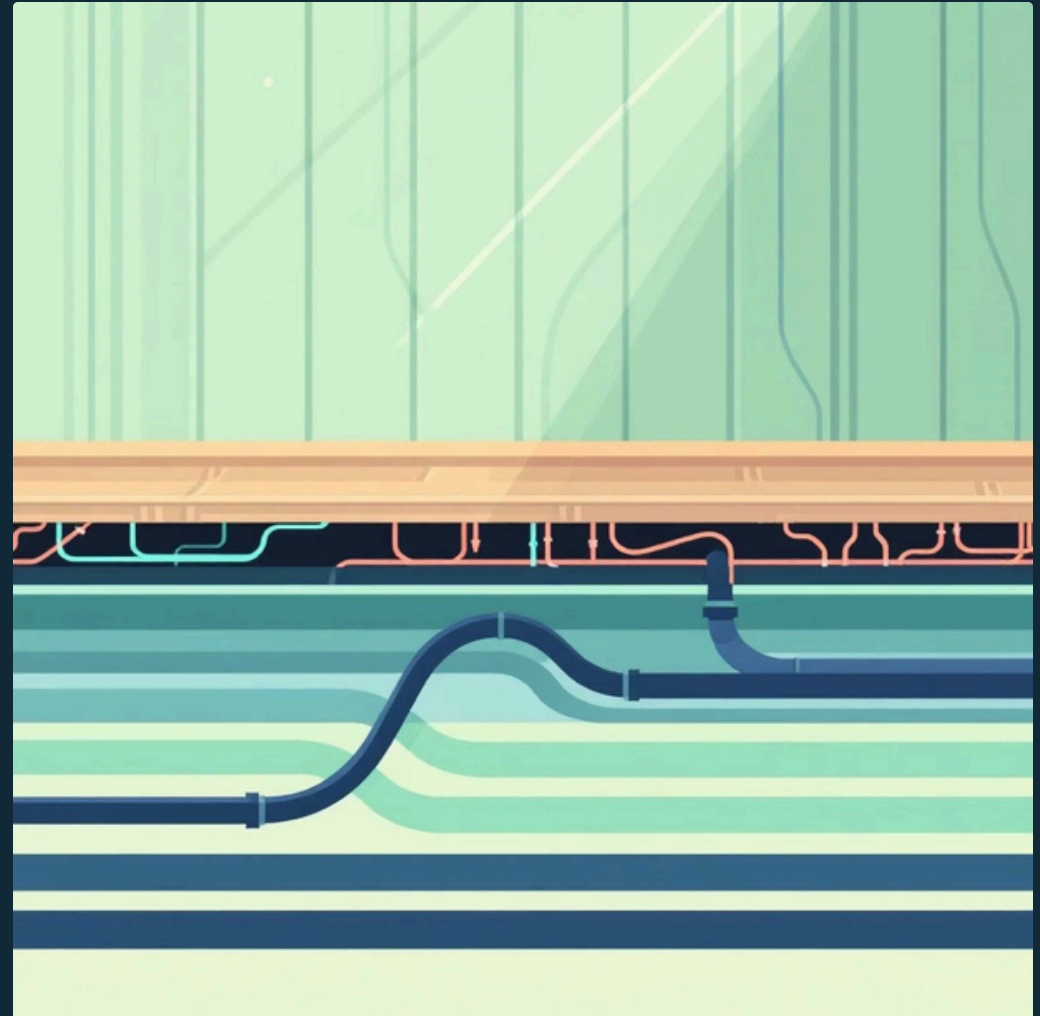
Uncover the future of home comfort through innovative hydronic radiant heating technology that delivers consistent warmth and exceptional energy efficiency.

# What is Hydronic Radiant Floor Heating?

Hydronic radiant floor heating representation revolutionary

approach to climate control that uses warm water circulated through specialized tubing installed beneath floors or ceilings. This cutting-edge system delivers consistent, energy-efficient heat without the noise, drafts, or air quality concerns associated with forced-air systems.

The technology has become increasingly popular for both residential and commercial applications, offering superior comfort while reducing energy consumption and operating costs.



# Radiant Floor Heating Manifold: The Heart of the System



## Precision Distribution

Distributes heated water to multiple heating zones with precise control and balance



## Advanced Monitoring

Integrated flow meters, temperature gauges, and air vents provide optimal system control



## Built for Durability

IVAR Stainless Steel Manifolds with 6 ports engineered for long-lasting performance

The manifold serves as the central hub of your radiant heating system, ensuring every zone receives the precise amount of heated water needed for optimal comfort and efficiency.

# Why Stainless Steel & Brass Manifolds?



## Corrosion Resistance

Premium materials ensure decades of reliable operation without degradation, protecting your investment and maintaining system integrity throughout the lifespan of your building.



## Extreme Performance

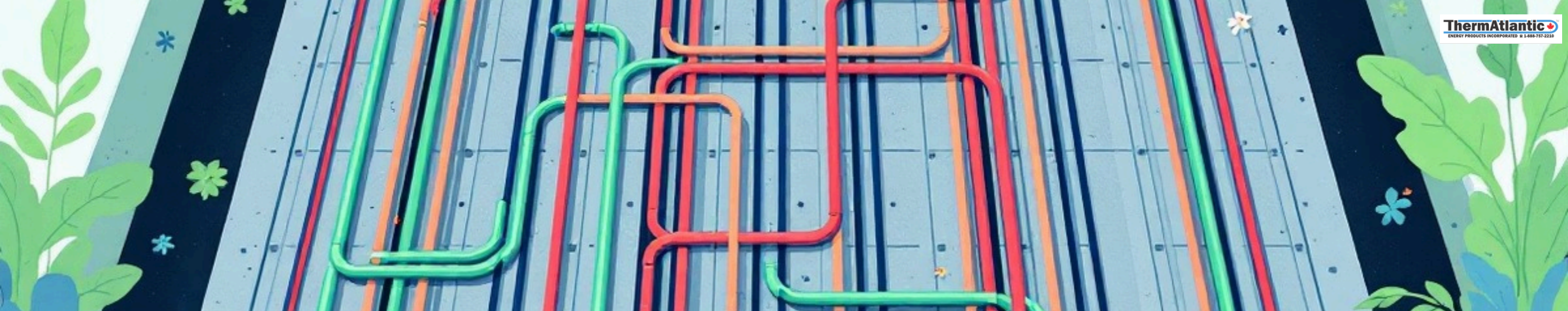
Engineered to handle demanding conditions with pressure ratings up to 145 PSI and temperature tolerance reaching 194°F, ensuring reliable operation in any climate.



## Installation Simplicity

Pre-assembled units arrive ready to install, dramatically reducing installation time and eliminating common assembly errors that can compromise system performance.





# Radiant Panel Systems: Floor & Ceiling Panels

## 1 Radiant Floor Panels

Engineered plywood or metal holds EX tubing securely in place, creating an optimal foundation for efficient heat transfer throughout your space.

## 2 Radiant Ceiling Panels

Provide comfortable overhead warmth distribution, making them ideal for spaces where floor installation is limited or where architectural constraints require alternative solutions.

## 3 Optimized Heat Transfer

Both panel types are engineered to maximize thermal conductivity and system efficiency, ensuring every BTU of energy translates into comfortable, consistent warmth.

# Hydronic Radiant Floor Panels in Action

## Heat Ply Radiant Floor Heating Manifold Panels

These innovative 1'x4' plywood panels are specifically engineered for 3/8" PEX tubing applications, providing a robust and reliable foundation for your radiant heating system.

### Key Features:

- Precise tubing spacing at 6" on center for optimal heat distribution
- Simplified installation process reduces labor time and costs
- Engineered design supports balanced heat distribution throughout the space
- Durable construction ensures system longevity and consistent performance



# System Control & Efficiency

## 1 Precision Balancing

Manifolds equipped with integrated balancing valves and flow meters enable precise temperature control for each zone

## 2 Automated Zone Control

Integration with thermal actuators provides intelligent, automated control that responds to changing comfort needs

## 3 System Optimization

Air purging valves maintain peak efficiency by continuously removing trapped air that can impede system performance



# Real-World Example: Stainless Steel Manifold

## 1 Pre-Assembled Excellence

Factory-assembled, corrosion-resistant manifold ready for both residential and commercial radiant heating installations

## 2 Integrated Monitoring

Built-in flow meter and temperature gauges provide real-time system data for effortless balancing and optimization

## 3 Freeze Protection

Compatible with various glycol mixtures, ensuring reliable operation even in the coldest climates and preventing system damage





# Benefits of Hydronic Radiant Heating Systems

## 1 Energy Savings

Reduce energy consumption by upto30% compared to traditional forced-air heating systems

## 2 Comfort Level

Experience complete comfort with even heat distribution, zero drafts, and silent operation

## 3 Installation Options

Versatile design suitable for floors,ceilings, and walls with specialized radiant panels



# Transform Your Space with Radiant Heating



## Choose Quality

Select durable manifold sand engineered radiant panels for reliable, long-term performance



## Achieve Comfort

Experience efficient, comfortable heating precisely tailored to your specific needs



## Expert Support

Visit [Thermatlantic.com](https://thermatlantic.com) for professional products and expert guidance

Ready to upgrade your heating system? Discover comprehensive solutions for radiant panel systems and hydronic manifolds that deliver unmatched comfort and efficiency for your space.

