



EasyFloor Manual



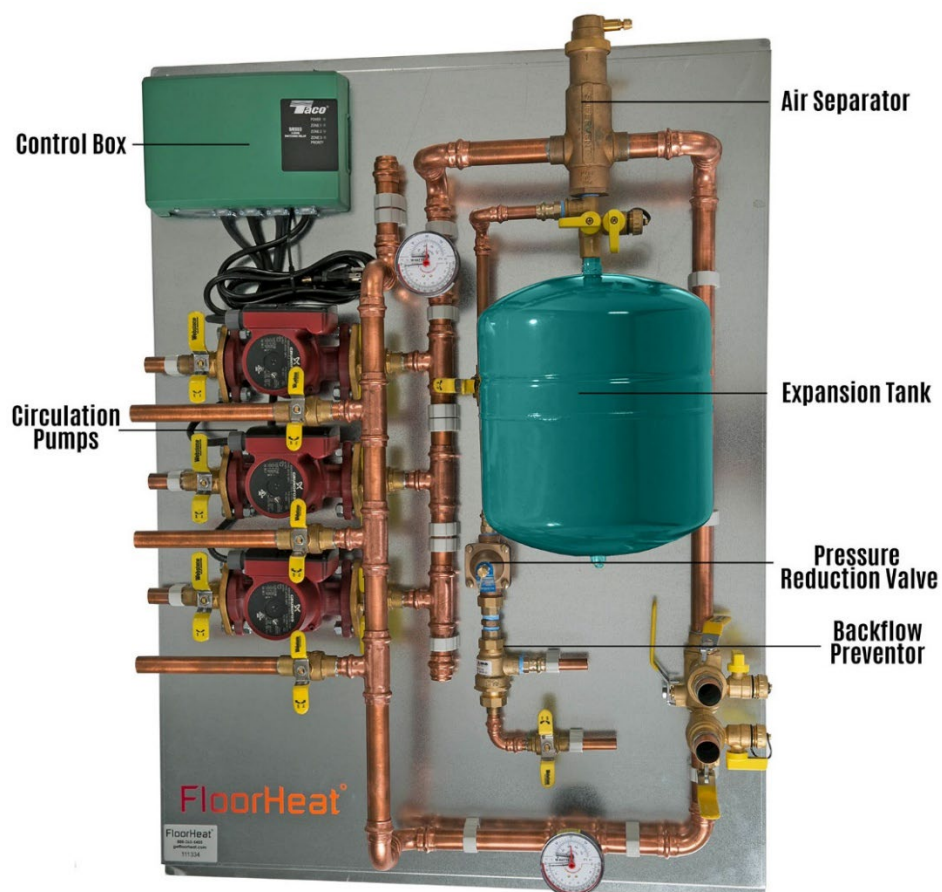
Website



Control Panel Manual

FLOORHEAT HYDRONIC RADIANT HEAT SYSTEM

Complete Solution – Control Panels + EasyFloor Grid System



CONTROL PANEL SPECIFICATIONS

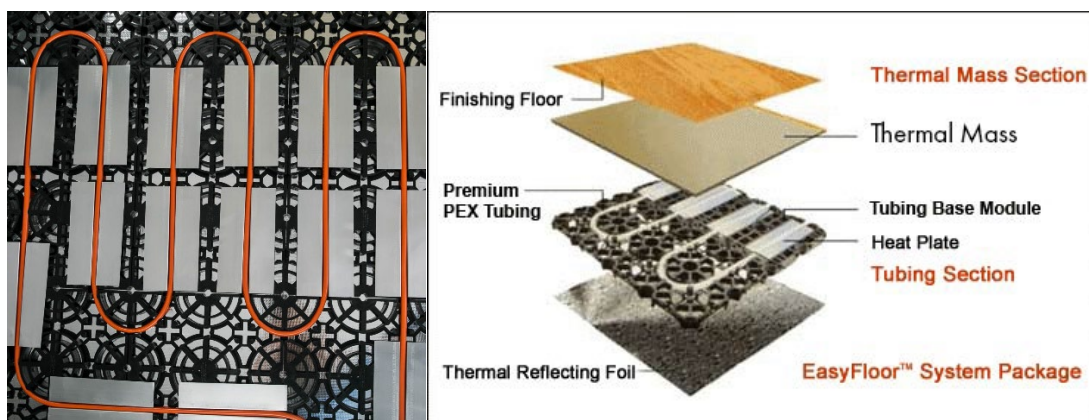
- **Link to Website:** <https://floorheat.com/hydronic-systems/>
- **Panel Type:** Pre-assembled Hydronic Radiant Heat Distribution Panel
- **Zone Configuration:** Available in 1–6 zones, left hand distribution standard, Reversed versions available.
- **Panel Dimensions:** Full Panel Dimensions: 32.5" Wide, 44" Tall and 9.5" Deep
- **Pump Flow Capacity Per Zone:** Up to 10 GPM
- **Supported PEX Sizes:** 1/2" and 5/8", **1/2" RECOMMENDED**
- Designed for use in Glycol or non-Glycol applications
- ◆ **1/2" PEX Configuration: RECOMMENDED**
 - **Max Loops per Zone:** 10 loops
 - **Loop Length:** Up to 300 ft each
 - **Flow Rate:** 1 GPM per loop
 - **Max Coverage per Zone:** ~2,000 sq ft (8" spacing)
- ◆ **5/8" PEX Configuration:**
 - **Max Loops per Zone:** 8 loops
 - **Loop Length:** Up to 400 ft each
 - **Flow Rate:** 1.25 GPM per loop
 - **Max Coverage per Zone:** ~2,133 sq ft (8" spacing)

PANEL COMPONENTS & BENEFITS

- **Brass Isolation Valves**
 - Heavy-duty shut-off valves installed on supply and return lines.
 - ☒ **Benefit:** Allow for easy maintenance or replacement of individual zones without shutting down the entire system.
- **Zone Circulators**
 - High-efficiency pumps that circulate hot water through each zone independently.

- ☒ Benefit: Provide precise control, energy efficiency, and balanced heat delivery in multi-zone systems.
 - **Pressure Gauge & Relief Valve**
 - Monitors system pressure and protects against over-pressurization.
 - ☒ Benefit: Ensures safe operation and helps quickly identify system issues.
 - **Air Separator & Automatic Air Vent**
 - Removes trapped air from the hydronic system to prevent flow issues.
 - ☒ Benefit: Eliminates noise, increases efficiency, and extends component lifespan by maintaining proper water circulation.
 - **Manifold Temperature Gauges**
 - Displays return and supply temperatures for each zone.
 - ☒ Benefit: Allows real-time performance monitoring and quick diagnostics to ensure each zone is operating at optimal temperatures.
 - **Connections:** 1" supply/return with isolation valves
 - **Tested & Pre-Assembled:** Pressure tested before shipping
 - **Mounting:** Wall-mounted steel backplate (space-saving design)
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EASYFLOOR SYSTEM SPECIFICATIONS



- **Installation Type:** Above subfloor or slab, Retrofit, 2nd stories.
- **Components & Benefits:**

- **Thermal Reflective Foil** - 48" wide vapor barrier that also reflects radiant heat upward into the living space. Installed beneath the grid system.
 - ☒ **Benefit:** Increases system efficiency and overall comfort by minimizing downward heat loss.
- **EasyFloor Grid Modules** - 16" × 16" interlocking structural panels that support 8" on-center tubing layout. Mold-, mildew-, and moisture-resistant.
 - ☒ **Benefit:** Speeds up installation, maintains consistent tubing layout, and resists warping or movement over time.
- **Aluminum Heat Transfer Plates** - Precision-formed 11" × 6" plates designed to cradle ½" or ⅝" PEX tubing. Promote efficient and even heat distribution.
 - ☒ **Benefit:** Improves system responsiveness and delivers consistent warmth across the floor surface.
- **PEX Tubing (Included)** - ½" PEX-AL-PEX with integrated oxygen barrier and aluminum core for rigidity. Compatible with ⅝" PEX.
 - ☒ **Benefit:** Maintains shape during installation, resists kinking, and prevents corrosion of metal components in the system.
- Layout diagram (if needed) and materials list
- **PEX Spacing:** 8" on center
- **Water Temp Efficiency: Operates with water as low as 80°F**
 - ☒ **Benefit:** Reduces energy consumption and maximizes compatibility with high-efficiency boilers, geothermal systems, and heat pumps — lowering utility costs while maintaining comfortable indoor temperatures.
- **Ideal For:**
 - High-efficiency or low-temp boilers
 - 2nd story floors, basement ceilings, or concrete slab overlays
 - Geothermal systems
- **Flooring Compatibility:** Tile, engineered wood, LVP, laminate, carpet with underlay
 - ☒ **Bonus Benefit:** Lower operating temperatures also expand flooring compatibility — allowing use with certain hardwoods that would otherwise be unsuitable for radiant heating systems.
 - Check with manufacturer that warranty is not voided

- **Noise & Movement:** Designed to eliminate creaking and shifting
 -  **Benefit:** The structural grid, aluminum plates, and use of **PEX-AL-PEX tubing** work together to prevent tubing from expanding and contracting during operation — a common issue with standard PEX. This reduces the risk of noise or movement under floors, creating a quieter, more stable system.

SYSTEM ADVANTAGES

- Efficient low-temp performance = Lower operating costs
- Works with geothermal & mod-con boilers
- Simple install for DIY or pro contractors
- Compact, attractive panel design
- Pre-built panels save labor and ensure reliability
- Built-in U.S.-based tech support
- Contractor Program: Save up to 20% on future orders

EASYFLOOR BUNDLE DISCOUNT

Pair the **EasyFloor® System** with a **FloorHeat Control Panel** and receive **exclusive savings** based on the total square footage of your order:

EasyFloor Coverage	Control Panel Discount
250 - 500 Sq. Ft.	5% off
501 - 1000 Sq. Ft.	10% off
1001 Sq. Ft. and Up	15% off



How It Works

Order the EasyFloor system and we'll send you a coupon code for the corresponding **percentage discount to any control panel**. No sign-up required — just bundle and save.

Ideal For:

- Whole-home radiant heating projects
- Basement or garage slab installs
- Second-story retrofits

\$50 REBATE PROGRAM — SHOW OFF YOUR INSTALL & GET REWARDED

We appreciate seeing our systems in action — and we reward you for it!

Earn a \$50 rebate by submitting **high-quality photos or video** of your installed FloorHeat system.

How to Qualify:

1. Take clear photos or video of your:
 - Control panel
 - Tubing layout
 - Finished floor (if applicable)
2. Use good lighting and landscape orientation.
3. Email your content to **rebates@floorheat.com** with your name and order number.

Approved submissions will receive a **\$50 rebate** sent back to the original payment method.

 *Note: Only high-quality submissions are eligible. FloorHeat reserves the right to determine approval status.*

BOILER SIZING – RULE OF THUMB (Estimation Only)

To estimate the boiler size needed for your radiant heat system, use this general guideline:

- **25–50 BTU per sq. ft.**
 - **25 BTU/sq. ft.** → Newer, well-insulated homes
 - **50+ BTU/sq. ft.** → Older, poorly insulated buildings

Example Estimate

2,000 sq. ft. well-insulated home × 30 BTU/sq. ft. = **60,000 BTU/hr boiler**

🔧 Always consult a licensed HVAC professional for load calculations and boiler sizing for your specific climate and insulation levels.

WARRANTY & SUPPORT

- **Warranty:** 1-Year Warranty on Control Panels
- **Support Hours:** Monday–Friday, 8am-5pm EST. U.S.-based in-house technical support
- **Shipping:** Check website for free shipping on Control Panels to the continental U.S.
- **Contractor Support:** Floor plan reviews, layout assistance, rebate programs
- **Returns:** 90-Days