Open system vs closed? Barrier vs non-barrier tubing? Boiler vs water heater?

The debate ends here. The patent pending X-Pump Block combines a variable speed mixing control, heat source circulator, system circulator, and heat exchanger into a single unit. This combination delivers complete isolation between the heat generation side of the system (boiler, water heater, etc.) and the heat delivery side of the system (radiant tubing, glycol based snowmelt, baseboard, etc.). Just four pipe connections and your installation is complete.
X-Pump Block

Features
- All-in-One Heat Exchanger, Dual-sided Circulators and Mixing Control Package
- Brazed Plate Heat Exchanger
  - Provides Complete Isolation
  - Stainless Steel
  - Easily Removable
  - Double Wall Optional
- Only 4 Pipe Connections Required
- Plug-in Low Voltage Connections
- Solid State Microprocessor Design
- Greatly Decreases Installation Time
- Substantial Space Savings
- Line Cord Included, Hard Wire Option
- Bronze Casing for Open or Closed Systems
- Maintenance Free, Wet-Rotor Circulators
- 2 Operation Modes: Outdoor Reset and Setpoint with or without Delta T Limiting
- Main System Pump Contact
- 100% Pump Operation / Control Override Switch
- Automatic Pump Exercise
- Adjustable Reset Ratio
- Warm Weather Shutdown
- Large LCD Display
- Outdoor and 2 Strap-on Sensors included

Performance Data
Flow Range: 0 – 7.5 GPM
Head Range: 0 – 15.5 Feet
Minimum Fluid Temperature: 32°F (0°C)
Maximum Fluid Temperature: 185°F (85°C)
Maximum Working Pressure: 125 psi
Connection Sizes: 3/4" NPT

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Application
The X-Pump Block (XPB) is a complete mixing system with an attached brazed plate, counterflow style heat exchanger for system isolation. Integral to the unit is a variable speed heat source circulator, constant speed system circulator and the electronics to drive it all. The XPB can be set up to operate as an outdoor reset control, a setpoint control or a delta T limiting control. This unparalleled flexibility within a single unit creates a pumping and control package that can be used in systems combining any style heat source (boiler, water heater, etc.) with any style heat delivery method or system condition (radiant tubing, glycol based snowmelt, open system, etc.). With just 4 piping connections needed, the XPB greatly reduces the time and space required for installation.

Sizing and Piping
The X-Pump Block can handle transfer loads of up to approximately 50,000 BTU. Your current method of piping virtually remains the same; yet complete system isolation is achieved. The only addition needs to be a separate expansion tank and relief valve on the system side. 1 outdoor sensor, 2 strap-on sensors and a line cord are included for fast plug n’ play wiring.

Electrical & Weight Data

<table>
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<th>Model</th>
<th>Volts</th>
<th>Hz</th>
<th>Ph</th>
<th>Amps</th>
<th>RPM</th>
<th>HP</th>
<th>Ship Wt.</th>
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<tr>
<td>XPB-1</td>
<td>120</td>
<td>60</td>
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<td>2</td>
<td>2250</td>
<td>1/2</td>
<td>@ 1/25</td>
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<td>12.0</td>
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Performance Field

Hydronic Components & Systems
Do it once. Do it right.