The code says YES to these technologies. What does your code official say?

Codes that say YES

Tankless Water Heater:

- 1997 Standard Plumbing Code
- 1997 International Plumbing Code
- 1998 National Electric Code
- (You must ensure that gas tankless water heaters are vented in accordance with code)

Manifold Plumbing System:

- 2003 International Residential Code
- 2000 International Plumbing Code
- (Must be sized according to Table 2903.8.1 (p408, IRC 2003). Each local code body must approve pre-manufactured manifolds)

PEX and AL-PEX:

- 2003 International Plumbing Code
- 2003 Uniform Plumbing Code
- 1997 Standard Plumbing Code
- 2000 International Mechanical Code
- (IRC 2003 allows above ground distribution of potable water if pipe meets ASTM F876 and ASTM F877)

Air Admittance Vents:

- 2000 International Residential Code
- 1999 International Plumbing Code (They must conform to ASSE 1050 or ASSE 1051 and the DWV system is designed with one vent to the outside (for venting the sewer system through the house). The outside vent can be wall-mounted. AAVs must be designed into areas where they will remain accessible, like inside sink vanities)

Hot Water Recirculation System:

- No special approval or requirements are required to install this system

Water Flow Leak Detectors and Shut-Off Valves:

- No special approval or requirements are required to install this system

Greywater Reuse:

- Local regulations, sanitary engineers, inspectors, and boards of health may not be familiar with or permit these methods.

PATH
PARTNERSHIP FOR ADVANCING TECHNOLOGY IN HOUSING

Learn more.
www.pathnet.org

(over)

Tips for Success with Code Approval

Sure, the code allows it. But you know that's only half the battle. Inspectors can balk when they see something unfamiliar. Still, if it's allowed by code, if there isn't a specific exclusion, and if you've installed it correctly—expect to prevail. Here are a few steps to help ensure that you do.

1) **Decide which advanced technologies would best fit your project.** Consider climate, long term and upfront costs, ease of installation, quality and durability.

2) **Research how to install them efficiently.** Visit www.ToolBase.org and contact the manufacturer for technical information.

3) **Record exactly which code allows the technology you want to use.** Bring the text of the code with you to the inspector's office during a preliminary meeting with a code official to discuss it before installing.

4) **Install properly.** Follow the manufacturer's directions. Don't assume that new technologies will install exactly like similar products.

5) **Show patience and understanding during inspection to inspectors unfamiliar with the new technology.** Be forthcoming with information: field evaluations, demonstration sites, even printed articles about the performance of the product. If you don't find what you need on PATHnet, contact us for help.

6) **Expect a slight delay in the inspection process—and build it into your schedule.** Remember, you're investing in your future: either in reduced cycle time, lower material costs, and/or superior home performance. Think of your first project as your "up-front cost" on future savings and market advantage.

7) **Inspectors put up a fight? Be firm, keep your cool, and lay it out for them.** Share your documents from steps two through four. When you know you're right, don't take 'no' for an answer—but avoid combativeness. You may find yourself in front of this official again, with another new technology. In the best of scenarios, a code official can become your ally in innovation.

New building technologies:	**www.PATHnet.org**
Technical information:	**www.ToolBase.org**
Building codes:	**www.iccsafe.org, www.nfpa.org, www.icc-es.org, www.energycodes.gov**

The Partnership for Advancing Technology in Housing (PATH) is a public-private partnership to accelerate the development and use of advanced building technologies. With support from HUD, PATH partners work to improve the quality, affordability, durability, energy efficiency, environmental performance and safety of our nation's homes. Join us.