

Viega

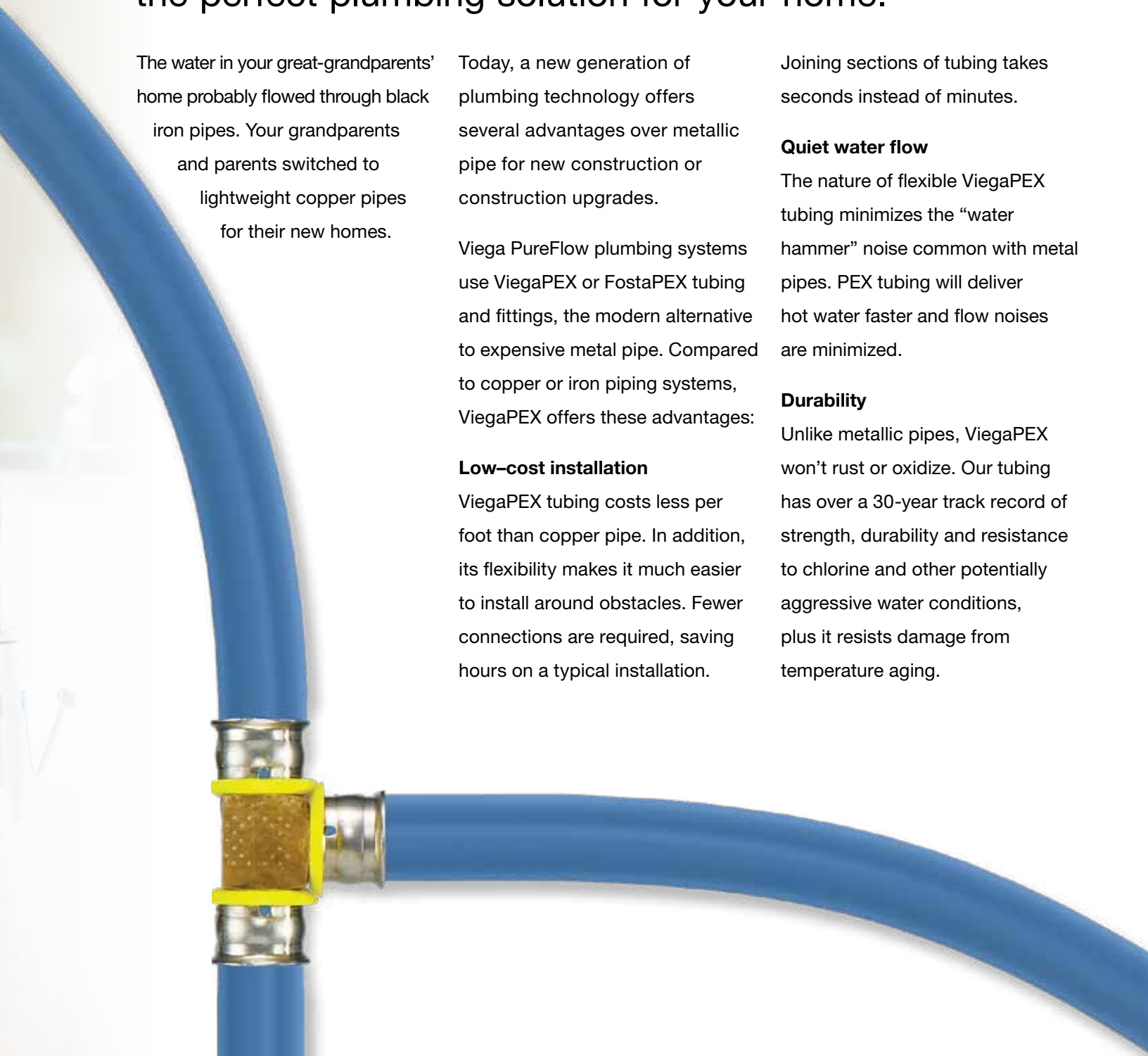
Delivering water and comfort to your home



Viega...The global leader in plumbing and heating systems.

viega





Viega PureFlow Systems the perfect plumbing solution for your home.

The water in your great-grandparents' home probably flowed through black iron pipes. Your grandparents and parents switched to lightweight copper pipes for their new homes.

Today, a new generation of plumbing technology offers several advantages over metallic pipe for new construction or construction upgrades.

Viega PureFlow plumbing systems use ViegaPEX or FostaPEX tubing and fittings, the modern alternative to expensive metal pipe. Compared to copper or iron piping systems, ViegaPEX offers these advantages:

Low-cost installation

ViegaPEX tubing costs less per foot than copper pipe. In addition, its flexibility makes it much easier to install around obstacles. Fewer connections are required, saving hours on a typical installation.

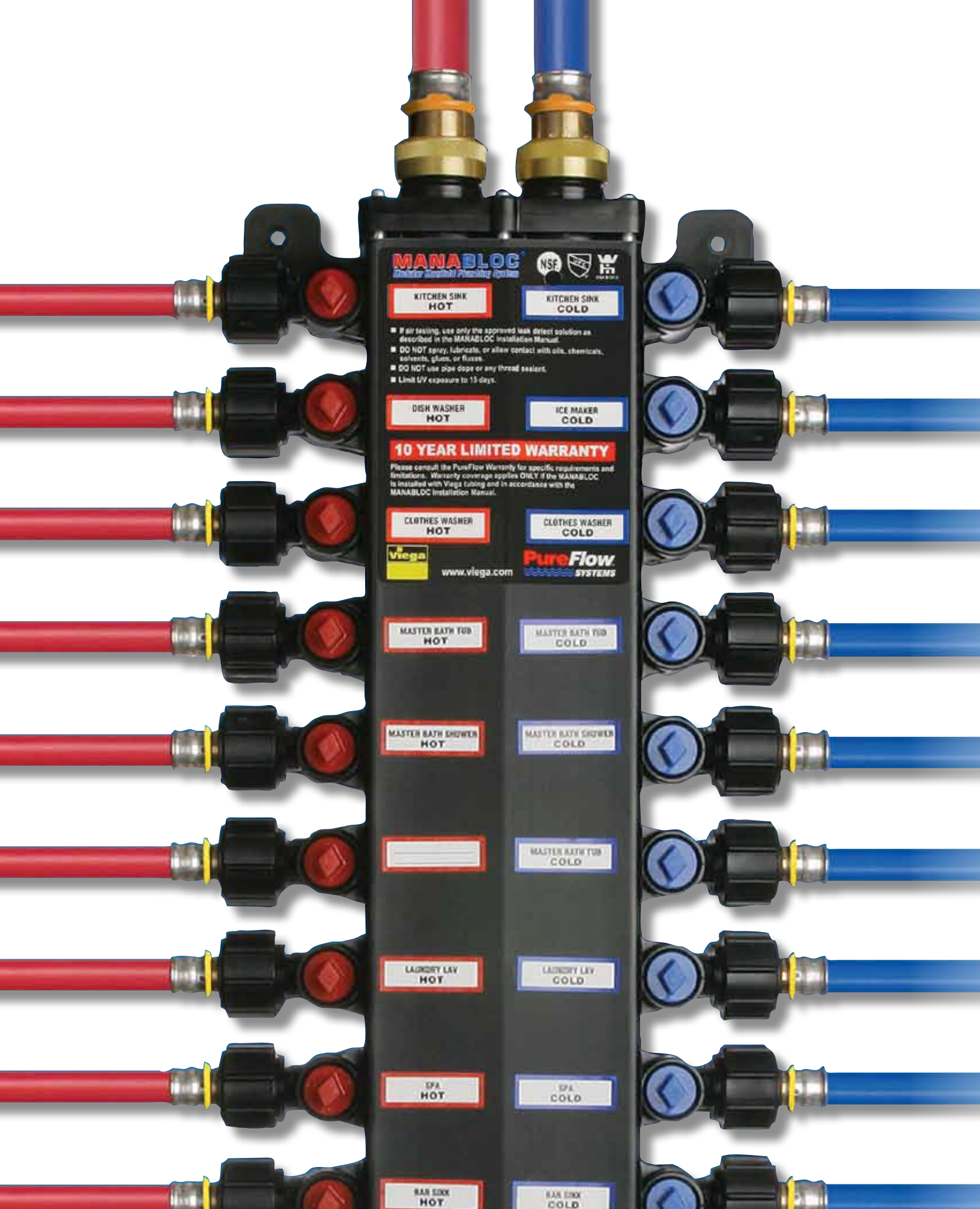
Joining sections of tubing takes seconds instead of minutes.

Quiet water flow

The nature of flexible ViegaPEX tubing minimizes the “water hammer” noise common with metal pipes. PEX tubing will deliver hot water faster and flow noises are minimized.

Durability

Unlike metallic pipes, ViegaPEX won't rust or oxidize. Our tubing has over a 30-year track record of strength, durability and resistance to chlorine and other potentially aggressive water conditions, plus it resists damage from temperature aging.



MANABLOC
Master Bathing Plumbing System

NSF
IAPMO
FOR A.P.P.

KITCHEN SINK
HOT

KITCHEN SINK
COLD

- If air testing, use only the approved leak detect solution as described in the MANABLOC Installation Manual.
- DO NOT spray, lubricate, or allow contact with oils, chemicals, solvents, glues, or fluxes.
- DO NOT use pipe dope or any thread sealant.
- Limit UV exposure to 15 days.

DISH WASHER
HOT

ICE MAKER
COLD

10 YEAR LIMITED WARRANTY

Please consult the PureFlow Warranty for specific requirements and limitations. Warranty coverage applies ONLY if the MANABLOC is installed with Viega tubing and in accordance with the MANABLOC Installation Manual.

CLOTHES WASHER
HOT

CLOTHES WASHER
COLD



www.viega.com

PureFlow
SYSTEMS

MASTER BATH TUB
HOT

MASTER BATH TUB
COLD

MASTER BATH SHOWER
HOT

MASTER BATH SHOWER
COLD

MASTER BATH TUB
HOT

MASTER BATH TUB
COLD

LAUNDRY LAV
HOT

LAUNDRY LAV
COLD

SPA
HOT

SPA
COLD

BAR SINK
HOT

BAR SINK
COLD

Viega MANABLOC the home run manifold plumbing system.

The MANABLOC is a master control center for all of your household water. Think of it as a “fuse box” for your water system, controlling the flow of hot and cold water to every faucet, toilet or appliance from one central location.

Faster hot water delivery

Because the MANABLOC distribution lines are dedicated to individual fixtures, less water is needed to flush the cool water out before it gets hot. This saves time, energy and water.

Save water and energy

Faster hot water delivery means less wasted water. You also save on energy costs. (See chart at right).

More consistent temperature and pressure

The built-in reservoir in the MANABLOC allows use of multiple fixtures at the same time without a noticeable loss of pressure or hot water. You can run a shower, flush a toilet or wash the dishes all at the same time with no dramatic differences in temperature or pressure.

Quiet operation

A MANABLOC system with flexible ViegaPEX tubing drastically minimizes the annoying “water hammer” noise that is common with rigid piping systems.

Less potential for leaks

Direct lines to fixtures mean no need for behind-the-wall fittings. Fewer connections mean fewer potential for leaks.

Easy to service

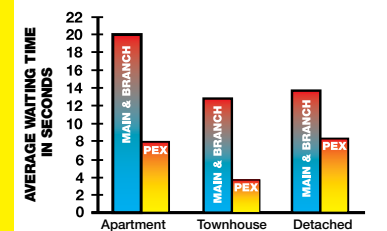
When you need to shut off water to an individual fixture, simply turn the individually labeled shut off valves at the MANABLOC control unit.

Complete coverage

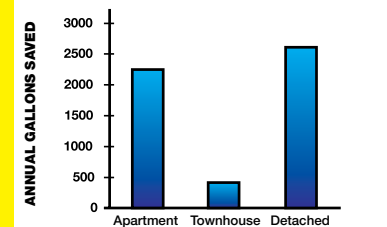
The MANABLOC 10-year warranty covers the complete system – manifold, fittings and tubing – covering replacement, property damage and reasonable repair cost. The warranty can be transferred to future owners of your home during the 10-year warranty period.



The MANABLOC saves time, energy and water.



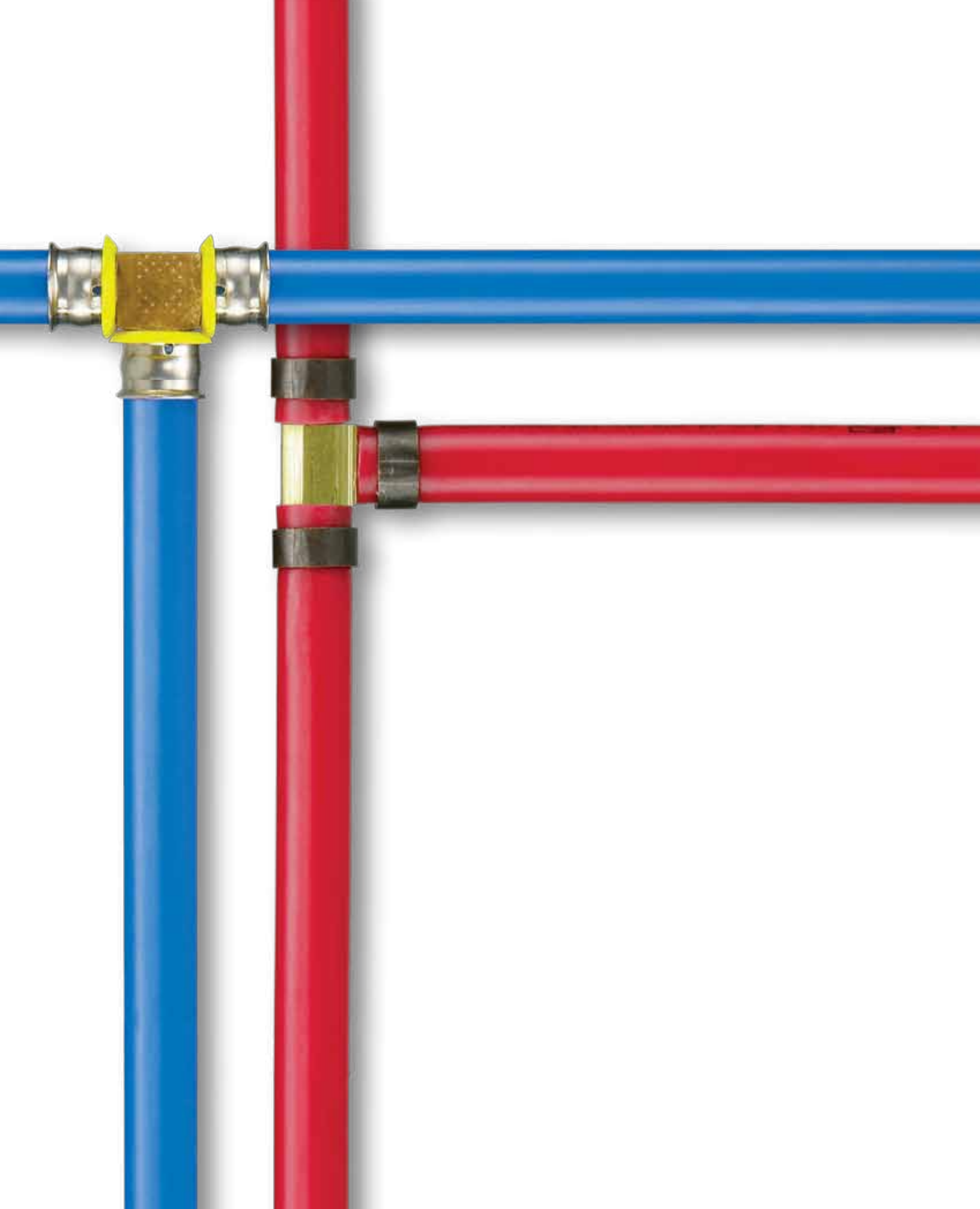
With PEX parallel piping MANABLOC systems, waiting times for hot water are projected to be reduced by 60% for an apartment, 70% for a townhouse and 39% for a single-family dwelling.



Annual gallons of water saved when using PEX parallel piping MANABLOC systems compared to standard main and branch plumbing configuration based on reduced water waste associated with hot water use.

*Source: Davis Energy Group report filed March 2006





ViegaPEX the superior tubing choice.

Viega pioneered the use of professional grade PEX tubing more than a generation ago. Although there are now many choices in PEX tubing, our ViegaPEX offers these advantages over other types:

Higher resistance to chlorine and UV radiation

ViegaPEX offers superior chlorine resistance for continuously recirculating applications, plus excellent corrosion and freeze-break resistance. ViegaPEX Ultra also provides additional protection against UV rays up to six months.

Exceeds the strictest plumbing standards and codes

Viega PureFlow plumbing systems exceed strict American Society for Testing and Materials (ASTM) standards in addition to conforming with Uniform Plumbing Code (UPC) and International Code Council (ICC) requirements for potable water systems.

Better protection against algae and minerals

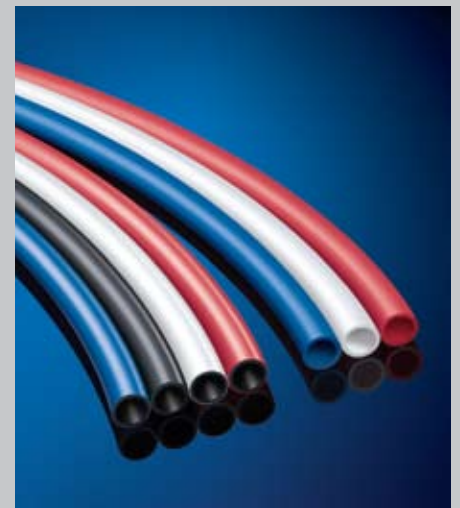
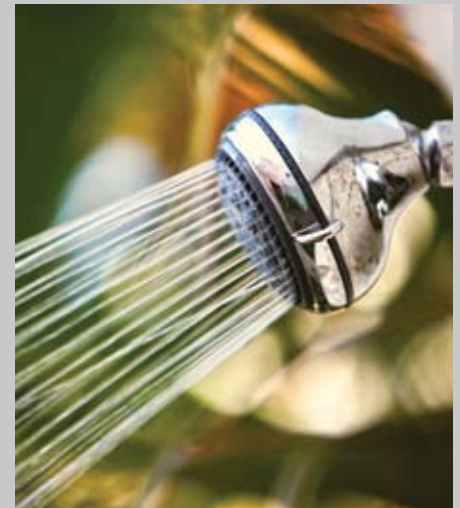
The light-blocking properties of ViegaPEX Ultra tubing eliminate algae growth and the high-density tubing wall inhibits mineral buildup.

Better appearance in your home

FostaPEX is fully dimensioned PEX tubing with aluminum and PE outer layers for form stability. FostaPEX stays in place when bent into shape and is ideal for applications where tubing is exposed.

What kind of warranty is offered?

Viega offers a 10-year warranty on our entire line of PureFlow tubing and fitting options. This warranty covers product replacement, property damage and reasonable repair costs. The warranty can be transferred to future owners of the residence during the 10-year warranty period.







Viega FAQs about PureFlow water systems.

Q. My plumber recommended a PureFlow water system. Why?

A. Your plumber, like thousands of others across the country, is upgrading to new technology to provide a cleaner, safer, simpler and easier-to-install system. Viega offers two forms of PureFlow tubing: ViegaPEX and FostaPEX. PureFlow tubing provides proven resistance to chemically aggressive water conditions and temperature aging for longer life expectancy.

Q. What about the water quality?

A. For more than 30 years, the Viega PureFlow plumbing system has met and exceeded every international standard for water purity from NSF, IAPMO and ICC. To assure the highest water and product quality, all listings are based upon testing

against the following standards: ANSI/NSF 14, ANSI/NSF 61, NSF 61 (MNEXG), ASTM F 876/F 2023, ASTM F 877 and F 1807/F 2159.



Q. How is ViegaPEX different than ordinary plastic tubing?

A. ViegaPEX is silane cross-linked polyethylene (PEX) tubing material that is flexible yet very durable. The cross-linking process restructures the molecules of the polyethylene so that they are similar to a chain-link fence. This 3-dimensional molecular structure gives the tubing enormous strength, giving it high temperature and pressure resistance and greater longevity for permanent installations.

Q. What is FostaPEX?

A. FostaPEX uses the same base tubing as ViegaPEX Ultra, and surrounds it with an aluminum layer to provide form stability and protection. FostaPEX when bent, holds its shape and has a thermal expansion rate similar to copper.

Q. What kind of warranty is offered?

A. Viega offers a 10-year warranty on the PureFlow system covering replacement, property damage and reasonable repair costs. The warranty can be transferred to future owners of your home during the 10-year warranty period.

ASTM International (Formerly known as American Society for Testing and Materials), Uniform Plumbing Code (UPC), International Code Council (ICC), NSF International (Formerly known as National Sanitation Foundation), International Association of Plumbing and Mechanical Officials (IAPMO), American National Standards Institute (ANSI)



ProRadiant Systems are the most efficient way to heat your home.

Our radiant floor heating systems offer the following benefits over traditional forced air and other hydronic systems:

Comfort

Radiant floor heating is the only heating system that gives you a room temperature curve that matches the Ideal Heating Curve for the human body. (see illustration to right)

Efficiency

Radiant utilizes the entire floor to heat the room environment. This allows for lower water supply temperatures resulting in increased energy efficiency.

Versatility

Viega systems can be installed in new construction and existing homes, over wood or concrete; or installed inside or outside the home.

Adds value to the home

Installing Viega ProRadiant heating systems in slab or basement

applications turns cold, damp areas into warm, cozy living spaces.

Easier to maintain

No filters or ducts to clean.

Healthier

No dry air blowing dust or allergens throughout the home.

Quieter

No fans or blowers required.

Better heat retention

Less heat loss while opening doors or windows and through walls and ceilings.

Zoning ability

Viega ProRadiant heating systems provide room-to-room temperature control, allowing you to heat only the rooms you are using.

Decorating freedom

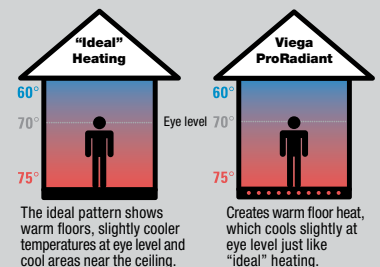
Without vents, radiators or cold air returns, you can put furniture where you want it.

Cut energy requirements by as much as 30 percent.

Besides providing a more comfortable environment, radiant heating is more energy efficient than traditional forced air heating systems. For most homes, energy requirements range from 10 to 30 percent less than with forced air systems.

Our ProRadiant heating systems direct heat to the interior of the room to greatly reduce the temperature loss through windows, doors, walls and ceilings.

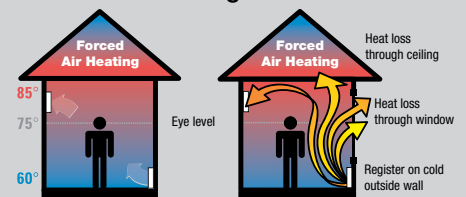
Viega's ProRadiant heating systems ... the closest thing to perfect heat.



The ideal pattern shows warm floors, slightly cooler temperatures at eye level and cool areas near the ceiling.

Creates warm floor heat, which cools slightly at eye level just like "ideal" heating.

Forced air is nearly the opposite of "ideal" heating.



Forced air heat results in cold floors and overheated ceilings. Heat is also lost through windows, doors and ceilings.

Climate Trak below Subfloor with Carpet



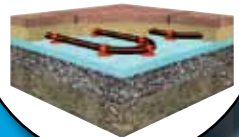
Climate Panel above Subfloor with Carpet and Pad



Climate Panel above Subfloor with Cement Board and Ceramic Tile



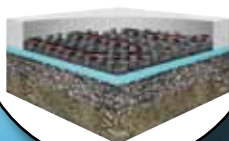
Tubing with Plastic Clips below Pavers with Insulation



Assembled Climate Panel with Engineered Flooring floating over Concrete Slab



Snap Panel over Slab-On-Grade with Insulation



Climate Panel above Subfloor with Hardwood Flooring



Tubing with Wire Mesh Clip in Slab-On-Grade with Insulation



Viega ProRadiant Systems work great inside and out.

Our ProRadiant floor heating systems can be used with any type of floor covering including; hardwood, tile, vinyl and carpeting.

In wood frame construction, the Viega Climate Panel System is perfect over wood subfloor or concrete.

No matter what type of finished floor you choose, the Viega Climate Panel System provides more efficient heating and keeps the heat closer to you while using less energy than other systems. Installers and homeowners choose the Climate Panel System for the following reasons:



Quick response time

Responds to fluctuating temperature changes faster than concrete.

Energy efficiency

Radiant heat utilizes drastically lower water temperatures to achieve thermal comfort.

Other ProRadiant Systems

In addition to our patented Climate Panel System, Viega has many other solutions for your radiant heating needs such as our Snap Panel concrete system, which is ideal for garages and



basements. The Climate Trak system is an extruded aluminum panel to be installed below the sub-floor when existing floors can not be removed. S-no-Ice® (Snow and Ice Melting, frost protection) is great for melting snow and ice providing safety on sidewalks and driveways.

So, whether you need radiant heat inside or out, above or below the subfloor with any floor covering, we have the right system for you.



Viega FAQs about ProRadiant floor heating systems.

Q. Why is radiant floor heating so comfortable?

A. A radiant floor heating system warms bodies, objects and floor surfaces. You feel comfortable because radiant floor heating keeps your feet and the objects around you warm – in turn keeping your body warm.

Q. Is radiant floor heating only for new construction?

A. Radiant floor heating systems can be installed in remodeling and retrofit projects as well as in new construction. The type of radiant system used would be determined by the circumstances of construction.

Q. Will radiant floor heating damage my hardwood floors?

A. A low-temperature constant circulation Viega Climate Panel System installed by

a contractor is designed to work safely and successfully with wood flooring. However, if not installed and controlled properly, radiant heating can harm wood floors.

Q. Is it possible to use radiant heat over an existing slab?

A. Radiant heat is the best way to convert a room with a cold slab floor into a warm, inviting and usable space. This can be accomplished in a couple of different ways. The radiant installation method of choice is determined by the desired finish floor surface and/or any floor height buildup constraints. With wood flooring install the Climate Panel System. For an existing slab floor you can install the tubing on top of it and pour another slab right over it.

Q. Can carpet be installed over a radiant heated floor?

A. Yes, carpet can be installed over a radiant heated floor. The R-value of the rug and pad combined should be less than 2.5. If wall-to-wall or plush carpeting is to be used with an R-value above 2.5 then supplemental wall radiant heat with Climate Panels in the lower wall is recommended. Area rugs leave floor space available for the radiant heat to do its job.

Q. Does a radiant heated house take a long time to heat up from a cold start?

A. That depends on the type of radiant system that is installed and how cold the house is when beginning. In general, a Climate Panel System which is on top of the subfloor

will heat a room up faster (approximately 20-30 minutes) than a concrete system.

Q. Do I need a new boiler, or can I tie a radiant system into my existing hydronic system?

A. Most frequently a radiant system can be tied into an existing boiler. Your heating professional will do the heat-loss calculations to determine if your existing boiler has the necessary capacity to support the radiant system.

Q. Can I use radiant heating to heat my entire house?

A. Absolutely. We often hear from people who regret not heating their entire house with a radiant system. It is easier and more economical to install a radiant system all at once than to go back in at a later date to patch in radiant heat where it had not been installed originally.

Q. What type of maintenance is required?

A. Viega radiant systems require little maintenance. System components that are supplied by others, such as the heat

source, may require periodic standard maintenance.

Q. What if a tube breaks in a floor?

A. The Viega PEX tubing is extremely durable and will not break in proper use. PEX tubing can be punctured by an unknowing carpenter or flooring installer. In that case, a repair coupling would be used to eliminate the damage. Viega offers a 25-year warranty on our tubing.

Q. What are the costs involved?

A. The installation cost of a radiant floor heating system will be more than a forced air or baseboard heating system. However, the operating cost of a radiant floor heating system will be less than a forced air or baseboard system. A Viega radiant heating system is an investment in comfort providing the ultimate form of heating comfort in a quieter, hidden and highly reliable system while increasing the house value.

Q. Will a radiant floor heating system add value to my home?

A. Yes. A radiant floor heating system is one place in your home that you want the best quality available. Viega quality has been proven for more than 30 years and can increase the value of your home.

Q. Is radiant floor heating considered a green technology?

A. Yes, because it is energy efficient and can improve indoor air quality. In addition, it has zone controlling capabilities for added comfort and energy efficiencies.



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