

Aquatherm and Environmental Responsibility



aquatherm

	PP-R	Stainless Steel	Copper	Steel	PEX	CPVC
Hygienic purity						
Zero impact on taste	✓	○	○	-	○	○
Zero impact on smell	✓	○	○	-	○	○
Opaque, microorganism free	✓	✓	✓	✓	○	○
No leaching into water	✓	✓	○	-	✓	○
No leaching through pipe wall	○	✓	✓	✓	-	○
Longevity and performance						
Resistant to abrasion and corrosion	✓	✓	○	-	✓	✓
Resistant to chemical breakdown	✓	✓	○	-	✓	-
Resistant to fitting leaks and failures	✓	○	○	○	-	-
Strong structural integrity	✓	✓	✓	✓	-	-
Resistant to scaling and electrolysis	✓	○	-	-	✓	✓
Tolerant to freezing	✓	-	-	-	✓	-
Engineered for 50 year life cycle	✓	-	-	-	-	-
Low production impact						
Does not require extraction	✓	-	-	-	✓	-
Does not require steel or copper mills	✓	-	-	-	○	✓
Does not require chlorine	✓	✓	✓	✓	✓	-
Toxin-free material						
No lead	✓	○	-	○	○	-
No copper	✓	✓	-	✓	○	✓
No iron	✓	-	✓	-	✓	✓
No PVC	✓	✓	✓	✓	✓	-
No dioxins	✓	✓	✓	✓	✓	-
No BPA	✓	✓	✓	✓	○	○
No VOCs	✓	○	○	○	✓	-
Minimum foreign materials						
No toxic glues or solders	✓	✓	○	✓	✓	-
No gaskets	✓	○	○	○	○	○
No corrosion inhibitors for pipe	✓	○	○	-	✓	✓
Environmental responsibility						
Recyclable	✓	✓	✓	✓	-	-
No hazardous waste	✓	✓	✓	✓	✓	-
Safe combustion by-products	✓	✓	✓	✓	✓	-

Environmental Responsibility

Who is Aquatherm?

Aquatherm is the world's leading producer of polypropylene piping systems for potable, hydronic, rainwater, and industrial applications. For over 35 years, Aquatherm has been dedicated to providing the cleanest, longest-lasting, and most reliable piping systems in the world. Aquatherm's innovative systems are used in over 70 countries, providing water distribution for:



Aquatherm piping systems range in size from 1/2" to 12" and are approved by NSF, ICC, and CSA.

- Hospitals
- Schools
- Hotels
- Resorts
- Homes
- Multiple-dwelling units
- Office buildings
- Universities
- Sports centers
- Cruise liners, cargo and service ships
- And countless other structures around the world

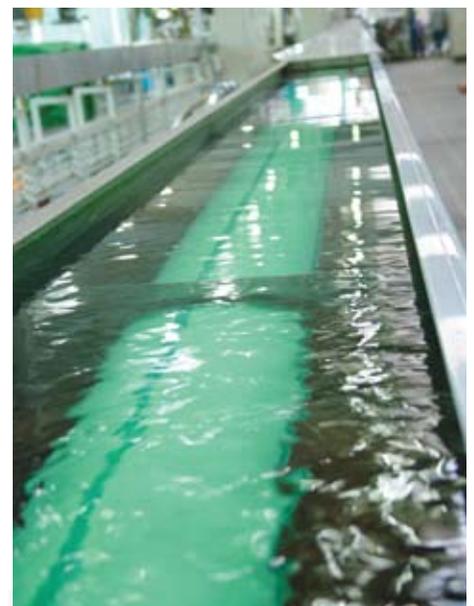
Aquatherm produces a variety of piping systems, all of which share the same standards of quality and environmental responsibility. The Aquatherm Greenpipe system is designed for use in potable water systems. The Climatherm system is best suited for hydronic heating and cooling and most industrial-type applications. The Lilac system is engineered for reclaimed and rainwater applications.

Green that matters

These days, lots of companies are trying to reinvent themselves as being "green" or "environmentally friendly," but what does that mean? To some companies, green is just a catchphrase they toss around to keep customers and environmentalists happy. But to Aquatherm, green is our way of doing business and has been for over 35 years.

Aquatherm has always worked hard to provide products that are better for both the consumer and the environment. Every step of our production process adheres to the strictest standards of both quality and cleanliness. Our fusion connections are simple, safe, and pollutant-free. Our pipe is made from polypropylene, a long lasting, non-leaching plastic that does not harm the ecosystem. With cutting-edge engineering and strict attention to detail, Aquatherm has proven that a company can be environmentally responsible while producing the best overall product available.

All around the world, Aquatherm is helping to make a real difference. Using Aquatherm's products can help you make a difference too, without compromising on quality or satisfaction in any way.



Green That Matters



Aquatherm Manufacturing Plant - Attendorn, Germany

Consider the source

Polypropylene is a byproduct that does not require additional extraction of natural resources. At Aquatherm's Attendorn, Germany plant, this resource is transformed into the rugged final product without the addition of any harmful chemicals. Aquatherm's environmentally responsible policies allow all its manufacturing facilities to exist in harmony with its surrounding environment.

Choose a longer lasting system

Replacing a piping system wastes energy and resources, not to mention the extra pollution it causes. The longer a piping system lasts, the lower its impact on the environment. Aquatherm's pipes and fittings have a life expectancy of 50 years or more. For most installations, that means they won't ever need to be replaced, saving both money and our planet.



Use Hydronic Heating and Cooling Systems



Hydronic heating and cooling systems are much more efficient than other alternatives, producing more comfort for people and less waste for the environment. Installing them in buildings provides long-term savings and drastically reduces the building's carbon footprint. And with their long lifespan and superior flow rates, Climatherm piping systems are designed to maximize the benefits of hydronic distribution, providing the best solution possible for both building owners and the environment.

Save energy with a better flow rate



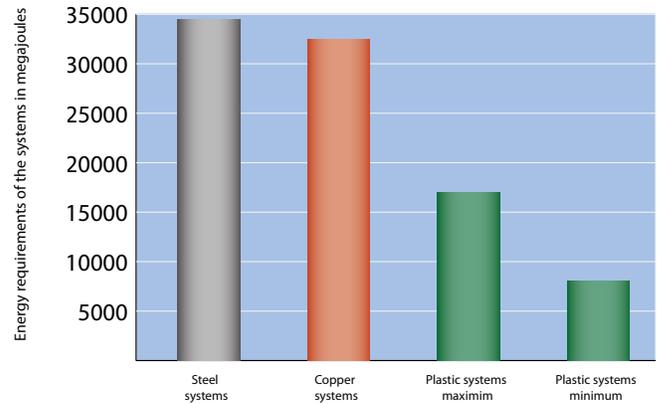
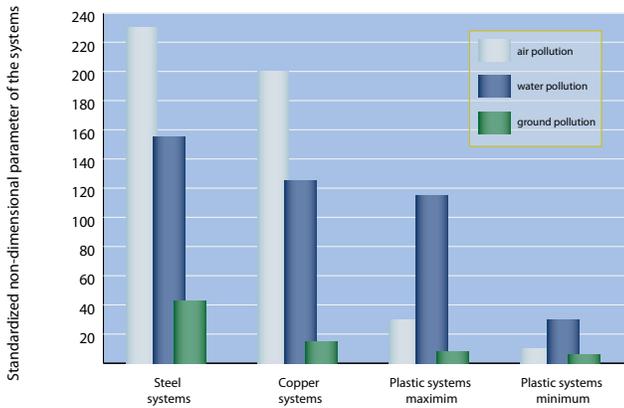
Pumps use energy to move water throughout a building. Friction from the pipe walls or constriction from fittings makes the pumps less efficient, wastes electricity, and increases maintenance costs. Aquatherm piping systems are designed with smooth inner walls and exterior fittings for maximum efficiency, reducing an installation's overall energy use. And Aquatherm's piping systems don't suffer from scaling or corrosion, so they continue to perform at the engineer's designed level for the entire life-cycle of the system.



Green That Matters

Buy low-impact materials

Aquatherm's polypropylene piping systems generate much less pollution during production than metal pipe. That means they are better for the air, the water, and even the ground. Replacing traditional piping systems with environmentally responsible Aquatherm pipes helps reduce global pollution.



Get materials that can be easily recycled

Some materials take more energy to recycle than to make new from scratch. But Aquatherm's polypropylene materials aren't contaminated during manufacture or use. When a system is ready for recycling, it can simply be shredded and melted back into its basic resin, without excessive treatments or processing. This gives polypropylene excellent sustainability, the main objective in any green building project. To ensure the quality of its source material, Aquatherm currently does not use any post-consumer recycled content in their systems.



Avoid non-recyclable parts

Most mechanical-type connections cannot be fully recycled. That means that even if the pipe is dealt with responsibly, parts of the fittings still end up going to waste in a landfill. Many Aquatherm fittings are identical to the pipe and some contain only a small piece of recyclable metal. That means that nothing goes to waste when the system has finished its service life.



Green That Matters

Install a Reclaimed and/or Rainwater system



Using non-potable water for tertiary tasks, such as flushing toilets, washing clothes, or watering plants and landscape, reduces the unnecessary use of potable water for the those same tasks. This conserves the overall water supply and helps limit the amount of water treatment required. Using reclaimed water is supported by the U.S. Green Building Council (USGBC) and can be applied toward the council's Leadership in Energy and Environmental Design (LEED) credits. Aquatherm's Lilac system is specially engineered for tertiary water systems and is even colored purple to help prevent accidental mix-ups with the potable supply.

Get the right insulation

Uninsulated metal pipes lose a lot of heat energy and making standard fiberglass insulation is both wasteful and costly. Fortunately, Aquatherm Advanced capitalizes on polypropylene's natural insulation properties to provide an efficient, responsible solution. Using reflective insulation, Aquatherm Advanced achieves the same insulation value as fiberglass and metal pipe, but only uses one-fifth the material, reducing waste and substantially lowering environmental impact.



Avoid systems with heavy metals

Aquatherm's piping systems are made from clean, safe polypropylene and use heat fusion connections to join the fittings. Most other piping systems contain heavy metals such as nickel, iron, copper, and lead, which can leach from the pipes and fittings into the water. These heavy metals are hazardous to both people and the environment. Switching to Aquatherm helps eliminate these toxins from our ecosystem.

Buy emission-free materials

Many joining processes, such as welding; soldering; gluing; and chemically bonding; release volatile organic compounds (VOCs) and/or noxious greenhouse gases into the air. But Aquatherm's simple and clean heat fusion connections are emission-free, making them the safest choice for the environment. Even in the event of a fire, Aquatherm piping systems do not release the same dangerous toxins that other plastics release.



Making a Difference



LEED through innovation

The LEED program has been widely adopted by both the United States and Canada as a point system to reward engineers, architects, contractors and developers who go beyond normal measures to make their projects more environmentally friendly. Switching from industry standard systems to Aquatherm can help a project earn LEED credits in a variety of fields, including improved air quality, water management, and innovation in design. Refer to the Aquatherm LEED Reference Guide for details.

Never compromise on quality

Using inferior products simply because they are “green” doesn’t really help the environment. Low quality piping systems fail more often, requiring more work and more resources in the long run. And they give consumers a lower level of satisfaction, making them less willing to try other environmentally responsible strategies. Aquatherm’s products lead the industry in both performance and sustainability, providing consumers the best of both worlds. The more people realize that quality and environmental responsibility go hand in hand, the better off we’ll be.



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Make the switch now

Many people are working to make our planet a greener, healthier place, but it will take everyone’s efforts to make global sustainability a reality. You can help by making environmentally responsible decisions when it comes to the products you use. By choosing products that last longer, perform better, and pollute less, you make the best choice for yourself, your clients, and our ecosystem.

Switch to Aquatherm’s green building technology today and start enjoying the benefits of being environmentally responsible.



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