



maxi·therm[™]
steamification is the alternative

steam·i·fi·ca·tion

noun

The concept of generating green steam to achieve the vision of an energy future where decarbonization does not depend on electrification.

*"**Steamification** offers a path to energy security by allowing flexible future fuel choices"*

"Steamification offers a path to energy security" and here is why:

- You can generate steam from multiple green source fuels such as biomass, biogas, solar, hydrogen, nuclear, waste-to-energy or an unknown future fuel.
- Steam is easy to transport with no pumps, up to 10,000 feet per minute.
- Steam is safe and reliable. When a steam leak happens, it's never an emergency.
- Steam is visible, non-flammable, non-toxic, has no electric shock hazard.
- Steam can be used for heating and cooling using technologies proven for over 100 years.
- Steam turbines can generate electric power and run pumps and fans.
- Steam has very low transmission loss compared to electricity.
- One pound of steam contains over 1,000 BTU. How much for a pound of water?
- Steam generation only needs small boiler feed pumps, less than one-tenth the electrical energy required than for comparable hot water loop pumps.
- Steam systems can be at least as efficient as condensing hot water boilers.
- Low condensate temperatures allow the use of non-metallic (PEX) piping for return to powerhouse.
- Carbon capture is easier to consider with a central steam plant, especially including cogeneration with a steam distribution system for heating and cooling.
- Steam is a utility much like electricity.
- Steam offers electric grid relief, especially for heating and cooling loads.

Steamification

Innovative Steam Solutions by Maxi-Therm

Maxi-Therm's mission is to advance the concept of Steamification by manufacturing cutting-edge steam heat transfer solutions and educating designers, contractors, district steam suppliers, and end-users about the benefits of using steam as an energy transport medium. We offer innovative steam solutions that use fewer components, reduce installation costs, require less maintenance, have a smaller footprint, and use less energy, while also lowering carbon emissions.

Steam is more efficient than you might think – in fact, Maxi-Therm has recently applied for a patent (United States Application No: 63/286,132 and Canadian Serial No: 3,183,035) for a 95+% efficient steam generation system combined with a 100% steam & condensate closed-loop distribution design. The key to achieving 95+% efficiency in a central steam boiler plant lies in the ability of a Maxi-Therm vertical flooded heat exchanger to produce low temperature condensate. That cool condensate can then be used to extract energy from waste heat within the boiler room.

Since 2004, Maxi-Therm has provided thousands of units across North America. Our equipment is used by prestigious universities such as Harvard,

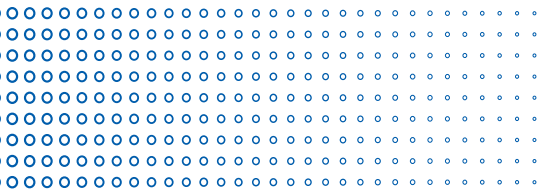
Duke, Yale, Towson, and Washington & Lee, as well as world-class hospitals such as Johns Hopkins in Baltimore, Swedish Hospital in Seattle and Children's Hospital in Philadelphia. Other prominent installations include the American Museum of Natural History in New York City, Two Liberty Place in Philadelphia and McCormick Place in Chicago, and well-known manufacturers including Pepsi Beverages, Merck Pharmaceutical and Dupont Chemicals.

There are many more benefits to using Maxi-Therm vertical flooded heat exchangers, including eliminating condensate receivers, PRV stations & steam vents through the roof, reducing air infiltration which produces condensate up to 6 times less corrosive than conventional systems, and producing zero flash steam losses.

To learn more about Maxi-Therm technologies, please scan the QR code below for links to literature and videos explaining our technology.

<https://maxi-therm.net/videos>





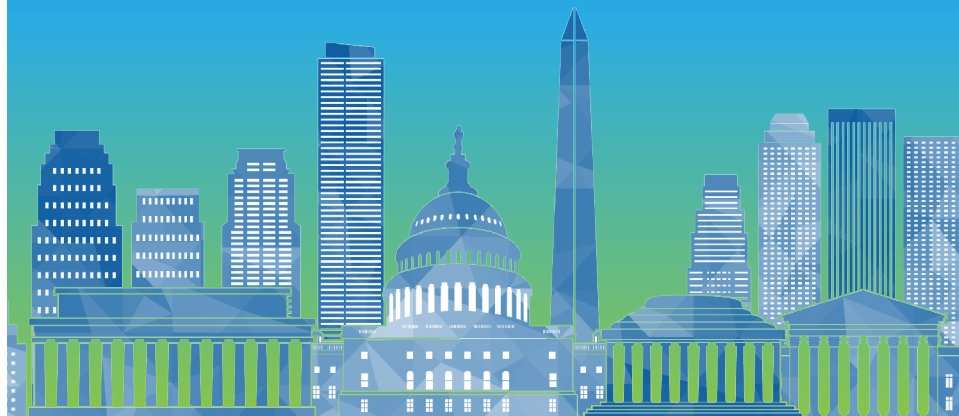
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**Maxi-Therm is a proud
 PLATINUM sponsor for the**

2023 Decarbonization Conference for the Built Environment

October 25-27, 2023

Renaissance Arlington Capital View, Washington D.C. Metro Area



The Decarbonization Conference for the Built Environment will be an information and idea exchange, between stakeholders in the built environment industry, concerning the timely and important topic of reducing carbon emissions from buildings.

The goal is to address the policies, design, construction, ownership, and operation of facilities targeted for reduced or neutral impact on the environment with respect to carbon footprint. The focus of the conference is to enhance the knowledge base in North America on decarbonization efforts for the built environment.

The conference is organized by ASHRAE, AIA, APPA, BOMA, and IFMA



Visit ashrae.org/2023decarbBE to learn more and see the most up to date information