Trane® Domestic Hot Water Heat Pumps

Capture wasted heat and turn it into savings.

Help reduce energy costs with water-source heat pump technology for domestic hot water heating.

Is your water heating system dragging down the energy efficiency of your building? In many facilities, gas boilers account for 4% to 37% of total natural gas consumption for water heating, depending on the building type.[1] Besides being less efficient than other heating systems, gas boilers contribute significantly to CO_2 emissions, making it more challenging to meet sustainability goals.

While electric water heaters provide a cleaner alternative to gas, they still lag in efficiency. Whether you're designing a new building or it's time to replace your existing building's aging boiler system, consider this a great opportunity to help increase overall energy efficiency and reduce operational costs by integrating a heat pump water heating solution into your HVAC system.

Trane Domestic Hot Water Heat Pumps (DHWHPs) offer a cleaner, more sustainable solution that eliminates fossil fuel use and is about 150% more efficient than electric water heating systems. Instead of generating heat, they maximize efficiency by *moving* it.

T270WM

The least expensive BTU is one that's already created.

Trane DHWHPs capture excess heat from external water sources — such as lakes, rivers, wells, underground pipes or engineered water loops — and transfer it to the water in the tank. The domestic heated water can be used for various applications such as bathing, cleaning and cooking.

This efficient approach helps reduce energy consumption while providing the same amount of hot water compared to conventional systems.

Engineered to serve a range of applications.

Trane DHWHPs can seamlessly integrate with your building's HVAC system, capturing and repurposing excess heat from the chiller to reduce chiller loads and enhance overall efficiency. These domestic hot water heat pumps are also compatible with district energy systems and can support a geothermal loop, delivering ultra-efficient water heating, even from sources as low as 35°F (2°C).

Producing water temperatures up to 175°F (79°C), Trane DHWHPs are ideal for commercial buildings with typical hot water needs, such as:

- **Large commercial buildings**
- **Hotels**
- **Government and office buildings**
- **Nursing homes and assisted living facilities**
- **Multi-family housing**
- **Hospitals**
- **Institutional facilities**

Other applications include:

Low-Temperature Comfort Heating Loop

In buildings that utilize low-temperature fluid for heating, typically produced from an air-to-water or water-to-water heat pump chiller, Trane Domestic Hot Water Heat Pumps can be integrated into the heating distribution loop to source heat for the water heater.

Water-Source Heat Pump System Loop

Trane Domestic Hot Water Heat Pumps can extract thermal energy from a water-source heat pump loop in a building. This loop typically circulates water through a network of distributed heat pumps used for space heating and cooling, allowing the water heater to utilize the relatively stable temperatures of the loop to efficiently heat domestic water.

1. Commercial and Multifamily CO2 Heat Pump Water Heater Market Study and Field Demonstration Final Report

Easy setup, easy startup.

The monobloc design of Trane DHWHPs allows for stacked units with zero clearance, reducing their footprint in your building. Plus, they're available in multiple models to meet specific system demands.

And because they're preconfigured at the factory for integration into an existing HVAC system, installation and commissioning are smooth and straightforward. All models include open-source BACnet communications protocol for connectivity and advanced staging with virtually all building management system (BMS) controls.

T540WM

T810WM

T1080WM

T1350WM

T125W

T185W

Designed for performance.

- **Water-Source Technology** — Higher and more consistent energy efficiency due to the more stable temperature of water sources compared to outdoor air.
- **High Temperature Output** — Can produce water temperatures up to 175°F (79°C).
- **Monobloc Design** — Offers versatility to cover a range of commercial capacities.
- **Low-GWP Refrigerant (R-513A)** — Reduces environmental impact while maintaining high efficiency.
- **BACnet Connectivity** — Enables seamless integration with external controls, BMS or included tank sensors.
- **Hydronic Heat Recovery & Free Cooling Capabilities** — Captures and repurposes waste heat from cooling towers and chillers, reducing operational costs.
- **Integral Circulator** — Ready to handle external piping.
- **Combined COP between 3.5-6** — Ensures industry-leading efficiency and compliance.
- **Double-Wall DHW Heat Exchanger (direct pipe ready)** — Prevents cross-contamination between the heat source fluid and the domestic water supply.
- **Single or Multi-Pass** — Provides operational flexibility in heating efficiency and temperature control.
- **Capacity (12,000-1M BTU+)** — Suitable for large buildings.
- **Cascading Protocol (1+)** — Enables multiple units to operate together while ensuring efficiency by using only the necessary number to meet demand.
- **Available in 208-230V, 460V and 575V** — Compatible with a range of electrical systems, reducing the need for costly electrical modifications.

Streamline and simplify with Trane.

Few HVAC equipment manufacturers also offer water heating solutions. When replacing the boiler that heats your building, Trane can also provide a solution for domestic water heating through Trane Domestic Hot Water Heat Pumps. By sourcing your domestic water heating system and your HVAC system from a single supplier, you can improve your building's efficiency, simplify integration and enjoy a "one-stop-shop" service and support experience.

With experience across a wide range of sustainable, electrified systems, Trane is qualified to deliver high-quality, reliable, electrified water heating solutions tailored to your needs. As a global HVAC leader, we offer a vast network of factory-trained technicians dedicated to keeping your combined hot water and HVAC systems running at peak efficiency. With Trane, you're not just investing in advanced technology—you're working with a trusted industry leader committed to long-term performance and reliability.

To learn more about Trane Domestic Hot Water Heat Pumps,
visit trane.com or contact your Trane Account Manager today!

Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit *trane.com or tranetechnologies.com.*

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