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GRUMPY THROUGH THE YEARS: A THROWBACK
FEATURED IN THE GRIME FALL 2014 ISSUE



THE GRIME

FALL 2025

HOW WARE'S MOBILE HOT WATER BOILERS KEEP OPERATIONS RUNNING

By: Steven Taylor, VP of Rentals Division

Cold water is fine for a million things like washing your car, putting out a housefire, or extinguishing those novelty birthday candles you can't blow out, you know, the kind your friends decided you needed for your 40th birthday. But for other things only hot water will do. Unfortunately, because it needs a heat source, hot water isn't as portable as regular old cold water. Unless, of course, you have a WARE mobile hot water boiler on hand.

Made to deliver hot water pretty much anywhere it's needed, WARE's fleet of hot water boilers is comprised of reliable, well-built, and highly capable units in a wide range of sizes to serve a range of applications. So where might you see one of these mobile hot water boilers in action?

BOILERPALOOZA

Imagine you're an event planner, and you're in charge

of planning a music festival out in the country. Tickets aren't cheap, and your guests are going to expect more than the basic amenities for their money. Considering the price of your tickets, cold showers are out of the question. Fortunately for you, WARE can deliver a powerful hot water boiler that can supply all the hot water it takes to deliver the comforts of home, nowhere near home.

GRANDMA SAYS THANKS

Now say you manage a nursing home. A cold snap is on the way, and your facility's boiler is on its last legs. If you lose hot water, you'll lose the ability to bathe your residents, make their food, or keep your facility clean. If you have a hot water boiler from WARE standing by, it can be delivered immediately and hooked up to your water supply to deliver all the hot water it takes to keep your residents safe and comfortable.

THE WORST

Let's say you're a disaster area manager, and a wide F3 has just gone through one of your neighborhoods. Your residents may have little more than the clothes on their backs, and they'd sure like to wash them. By bringing in a WARE mobile hot water boiler, you can help inspire some hope and humanity by giving them clean, hot water.

These are just a few of the scenarios that call for a mobile hot water boiler from WARE.

WHAT'S INSIDE

The typical 2,000,000 btu/hr or 4,000,000 btu/hr WARE hot water boiler is a fully enclosed unit that is trailer-mounted for easy transport. It's just shy of 20 feet long, about 8 ½ feet wide, about 11 feet tall, and weighs 4,500 pounds. When it operates, it delivers water from 160° to 200° Fahrenheit at typical system pressures from 60 to 100 psi. Fuel is supplied through a natural gas or propane supply line, while power comes in through an electrical line. WARE also offers mobile hot water boilers that can fire on #2 fuel oil, and some that are fully electric. WARE hot water boilers operate at about 88% efficiency, making them a cost-effective way to bring hot water where it's needed.

CAPACITY OPTIONS

If your event or site needs more than a single unit can deliver, WARE has an ingenious system available that allows up to three hot water boilers to be connected together through a manifold, delivering triple the amount of hot water that a single unit can provide. To keep that much hot water moving, an electric pump system is added to the circuit to maintain sufficient

pressure. Depending on how many mobile hot water boilers are connected to the manifold, the system may need up to two pumps.

TRANSFERRING HEAT

If a WARE mobile hot water boiler is being used for industrial or commercial building heat, it will function with a closed-loop system with the building heating loop. For domestic applications, an external storage tank may be needed to assure that there is plenty of hot water available for demand surge.

If you have an event coming up, or if you suspect you may find yourself in a situation where you need hot water heating for a commercial or residential application, contact WARE and set up a standby plan for a mobile hot water boiler now. Of course, if you need one right now, we have you covered. Just contact us for a quote any time, 24/7. If there's anything else you need for your own boiler, we have the training, the parts, and the expertise to keep it running in top shape. Just let us know how we can help. ■

KEEP LEARNING: A LOOK INSIDE A MOBILE HOT WATER BOILER UNIT

Scan to watch

Boiler Trivia

1. Legend or Fact? A thin layer of soot on tubes acts as insulation and reduces boiler efficiency.

2. Boiler Lingo Quickfire
What does "PRV" stand for?

3. Fill In The Blank
The device that prevents a boiler from running dry is called a _____.

4. Math Estimate
If your process is 7,500 lb/hour, what boiler HP would you need for the job?

5. Word Scramble
Unscramble: RIVELAELVFE

Reveal answers!





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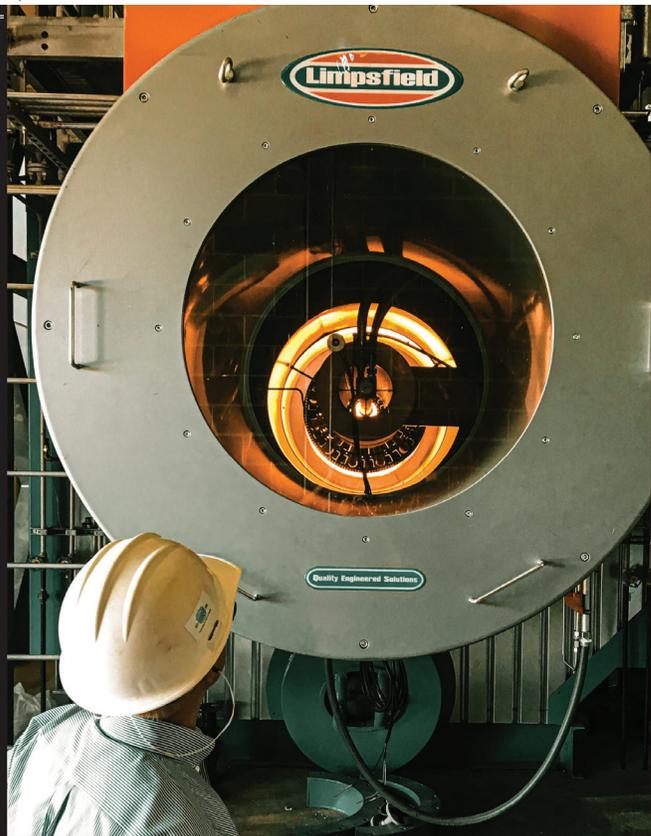
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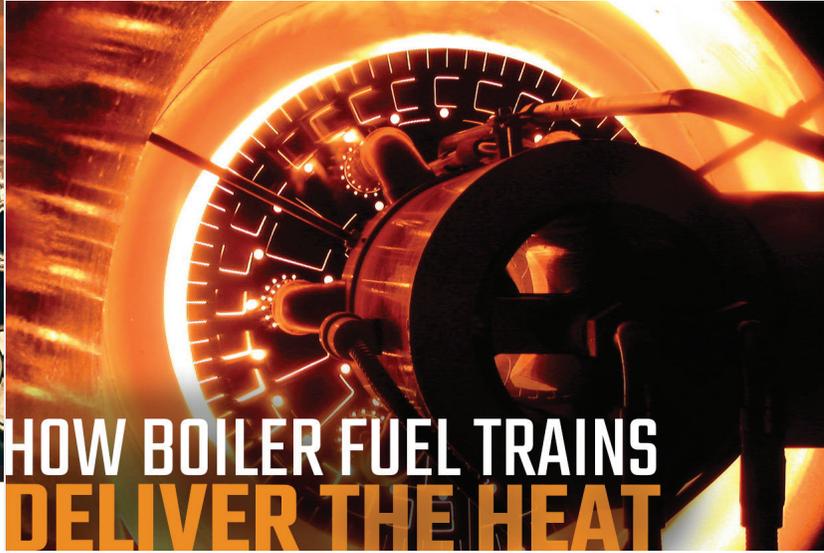
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HOW BOILER FUEL TRAINS DELIVER THE HEAT

By: Jude Wolf, Senior Instructor at Boiler University

In the world of steam generation, consistency is everything. That's why the boiler fuel train is one of the most critical components of any combustion system. Whether your boiler uses natural gas, propane, oil, the fuel train ensures a safe, steady, and efficient flow of fuel to the burner. And when fuel flow is compromised, so is steam production.

At WARE, we not only supply and service boiler fuel trains, we also train professionals to understand them inside and out. Here's everything you need to know about how fuel trains work, what to look out for, and how WARE can help keep yours running at peak performance.

What Is a Boiler Fuel Train?

A boiler fuel train includes all the piping, regulators, valves, sensors, and switches between your utility connection or fuel tank and the burner. Its primary job is to deliver fuel, at the correct pressure and volume, to ensure complete combustion inside the boiler.

Without a properly functioning fuel train, your boiler may:

- Fail to ignite or stay lit
- Suffer from inefficient combustion
- Produce excess emissions
- Damage internal components due to sooting or stress

Why Consistent Fuel Flow Matters

An inconsistent fuel supply may also cause the boiler to have too much air in the mixture, which further



Weekly Boiler Tips

Every Wednesday, Jude goes through how to and tips for the boiler room.



Boiling Point

Watch Ritchie talk with industry pros about the different aspects of steam boilers.

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“ I just got my 2nd firemen's license and this channel helped me out a lot! ”

YouTube user: socialbender

damages efficiency because some of the useable heat ends up getting swept out of the fire side and out through the stack. A fluctuating fuel supply can also lead to frequent cycling, meaning your boiler is either dealing with too much heat or trying to play catch-up from not having enough, and never burning at a steady, even rate. That means a lot of wasted fuel. Whether you're noticing odd flame behavior, irregular stack temps, or short-cycling, a fluctuating fuel supply is often the culprit and something WARE can help diagnose and resolve.

Gas Boiler Fuel Trains: How They Work

For natural gas or propane-fired boilers, the fuel train typically includes:

- Gas shut-off valves for manual isolation
- High and low gas pressure switches for safety
- Gas pressure regulators to ensure consistent pressure
- Gas filters to remove particulates
- Safety shutoff valves (SSOVs) to prevent leaks during startup or shutdown

The key component is the pressure regulator, which reduces utility pressure to the boiler's operating requirements while maintaining consistent output, even during surges or demand shifts. Some gas trains also use pilot-operated regulators for added stability.

At WARE, we install and maintain gas trains from leading manufacturers like Power Flame, Limpsfield, Maxon, Faber, and Victory Energy, each known for reliability and safety

Oil Boiler Fuel Trains: What Makes Them Different?

Oil boilers require a different approach. Because oil is typically stored in on-site tanks and lacks line pressure, oil trains include:

- Oil transfer pumps to pressurize the system
- Preheaters to reduce oil viscosity
- Pressure regulators for consistent atomization
- Bypass lines or relief valves to recirculate excess fuel and protect the pump

The pressure in an oil system isn't just about movement—it's also crucial for atomizing the fuel into a fine mist for complete combustion.

WARE's team can help you size, tune, and maintain oil systems for maximum efficiency.

Safety First: Common Fuel Train Problems

Regardless of fuel type, fuel trains must be regularly inspected and maintained. Some warning signs of problems include:

- Erratic flame behavior
- High or low stack temperatures
- Frequent cycling or shutdowns
- Excess soot or CO emissions

Common causes of these symptoms include:

- Dirty or damaged pressure regulators
- Failed safety switches or shut-off valves
- Clogged gas filters or oil strainers

WARE technicians are trained to quickly diagnose and resolve these issues

WARE's Trusted Fuel Train Partners

We proudly offer and service equipment from trusted names in combustion:

- Power Flame
- Limpsfield
- Maxon
- Victory Energy
- Faber
- AUTOFLAME (controls and combustion management systems)

Education: Learn More at Boiler University

Want to deepen your understanding of combustion and fuel trains? Enroll in Boiler U 302: Principles of Combustion, part of our nationally recognized training program at Boiler University. Learn how gas trains, linkages, and regulators all contribute to safe, efficient steam generation—with hands-on experience included. ■

CHECKLIST

MOBILE HOT WATER BOILER READINESS CHECKLIST

- Confirm your power and fuel source
- Check access for delivery and trailer placement
- Verify water supply connection and pressure requirements
- Plan for storage tank or closed-loop integration
- Estimate daily hot water demand

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Your essential guide to the steam and boiler industry, offering a blend of expert insights and practical advice. With in-depth interviews and hands-on tips from industry experts.



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