

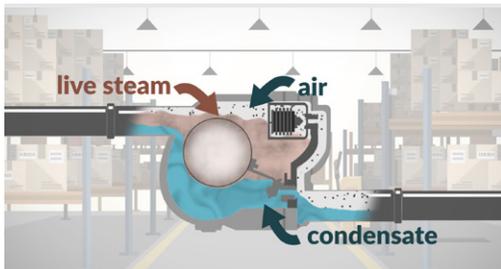
FEELING TRAPPED BY HIGH STEAM COSTS?

It could be your

STEAM TRAPS.

Steam is used in many commercial and industrial settings for employee comfort, process heat and humidification, to name a few.

It takes a lot of energy (primarily natural gas) and money to generate steam, so it makes sense to operate your steam system as efficiently as possible. That means keeping your steam traps in good shape.



Steam traps are valves that open, close or modulate to release condensate and air from pipes or radiators without letting steam escape.

A commercial or industrial steam system typically pipes steam from a boiler

to heating or process equipment where it is needed. As steam transfers heat and cools, it condenses back into a liquid, commonly called condensate, which must be released or routed back to the boiler so it can be heated again. This release occurs in steam traps positioned at various points in the system.

Like other mechanical devices, steam traps can fail and need maintenance or replacement. If a steam trap fails and releases steam along with the condensate and air, the energy used to generate it is wasted. This can significantly impact your energy bills!



A Steam Trap Study by Frontier Energy, Inc., helps you evaluate and identify damaged, dirty or sticky steam traps, develop a plan to fix them, and access rebates or incentives available through your natural gas utility provider.



Frontier Energy's Steam Trap Study Includes:

- Visual inspection of pipes and steam traps for external signs of leaks
- Sophisticated infrared imaging to measure and compare pipe temperatures upstream and downstream from the traps (Certified Level 1 Thermography)
- Ultrasonic diagnostics to assess steam flow and compare it against a sound profile to determine if a trap is plugged or leaking
- Comprehensive inventory of steam traps with tags, descriptions and locations to assist with future maintenance
- Energy and cost-saving calculations based on your system's pressure, usage, type, size and number of malfunctioning steam traps
- Utility rebate and incentive assistance to help you cover the cost of steam trap upgrades and repairs (in many cases, natural gas utilities will even pay a portion of the study cost)



"I appreciate what (Frontier Energy) does to help us access all the rebates possible for projects ... and keeping us apprised of what is available. It has allowed us to convince administration to fund several energy-saving projects (including a Steam Trap Study)."

Kurtis Busman, Facilities Management Director
St. Joseph's Medical Center, Brainerd, Minn.

Frontier Energy offers unbiased, third-party analysis.

We don't sell steam traps or offer steam trap repair or replacement services. As an unbiased third party, we help clients manage their steam distribution systems and energy dollars more effectively. You get honest, professional recommendations that you can choose to follow, or not. No pressure!

Most clients find that a Steam Trap Study quickly pays for itself through energy savings and rebates—sometimes within months.



Steam boiler heating systems most often are found in older facilities such as these:

- Schools
- Churches
- College campuses
- Office buildings

Industrial steam commonly is used in facilities such as these:

- Food processing plants
- Refineries
- Chemical plants
- Power plants

If you are a business owner, building operator, facility manager, maintenance supervisor or anyone involved in maintaining or operating a steam boiler system for space heating or process uses, you can benefit from a Steam Trap Study.

- Improve your system's performance
- Save energy
- Lower operating costs
- Free-up valuable dollars in your budget

Don't let your hard-earned utility dollars disappear into thin air. Contact us today!



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