

The Tigerloop® & Burner Efficiency



The Tigerloop® Oil De-aerator

The Tigerloop® can improve the efficiency and extend the life and health of your oil heating systems.

Stop Re-Filtering The Same Oil

The Tigerloop® only draws oil at the nozzle firing rate (i.e. 1 gph). This allows you to use only one line from the tank to the Tigerloop®. With a 2 pipe installation you have to provide 2 large diameter lines that will handle oil traffic at approximately 20 gph in both directions. One immediate benefit is the cost savings of dropping one line, but you also filter less oil (1 gph vs. 20 gph) extending filter life.

Pre-Heat The Oil

The Tigerloop® draws oil slowly into the house at 1 gph and loops it through the pump approx. 20 times, warming it before it is fired. Contrast this to a 2 pipe system where cold oil rushes into the house at 20 gph and then is immediately sent back outside into the cold tank again. Pre-heated oil burns more cleanly and more efficiently than cold oil.

Stop Churning The Tank

Two pipe systems stir up sediment in the tank, which can clog nozzles and filters. Also you eliminate the risk of leaks from the pressurized return line that is constantly pumping oil back to the tank.

Reduce The Vacuum

Vacuum is reduced because you are only pulling 1 gph up the inlet line instead of 20 gph. This is critical if you are lifting oil, or have a restricted line or a dirty filter. Imagine trying to drag 20 gph through a series of fittings, bends and a filter. The Tigerloop® cuts the flow rate down to 1 gph, dropping vacuum. Lower vacuum gives less foaming and air issues. You get a cleaner and more solid flame and higher efficiency.

Better Than a Two Pipe System

Two pipe systems create higher vacuum and churn cold oil, but also send all of their air straight into the pump - some goes out the nozzle and the rest goes back to the tank. This can cause lockouts, flameouts and sputtering. The Tigerloop® de-aerates the return oil and loops it back to the burner. This can reduce air by 95%. For example if you need 1 gph from the tank, the Tigerloop® is supplying 19 gph of de-aerated oil. This means that 19 out of 20 gallons (or 95%) of the oil has been de-aerated, and you get an efficiency bump.

Better Than a Single Pipe System

In a single pipe system, any air trapped in the line has to go out the nozzle which can cause lockouts, flameouts, and sputters. The Tigerloop® provides automatic de-aeration and reduces or eliminates these problems.

Stop Nozzle Dripping

Air trapped in the nozzle line can expand and push oil out of the nozzle after the burner cycles off. This can create soot in the chamber or bake deposits onto the nozzle. The Tigerloop® removes the air which causes these problems.

Improve Efficiency & Reliability

The Tigerloop® keeps a burner firing cleaner and producing less soot which can build up on the inside of a boiler and interfere with the absorption of heat. More heat goes into the house instead of up the chimney. You can see that having a Tigerloop® is better than either a single pipe system or a 2 pipe system, and if the Tigerloop® saves a service call, you save money (and aggravation). You improve burner efficiency and reliability, and also customer satisfaction, things which are extremely important in today's oil heating marketplace.

exclusive importer

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