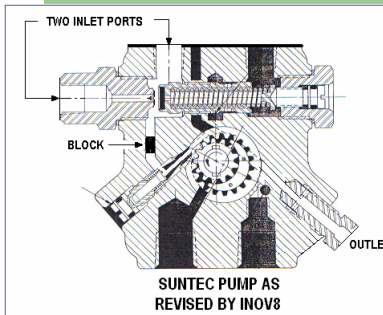


Metering Pump ... What does this mean?

Some tout this as the solution to the pressure variations at their nozzle, BUT BEWARE. This expensive alternative is still limited to 50 wt. oil and doesn't allow for filtering after the oil is heated. Pump manufacturers claim that these don't work much longer than their predecessor without pressure changes. As the internal gears wear from "wear metals" in the engine oil they will also allow changes to oil flow. Those changes will cause operating problems ranging from reduced heat to furnace damage.

The **only** burner capable of consistent nozzle pressure despite oil viscosity

is INOV8's. That is due to the patented pump that runs at full RPM moving all 17 GPH of oil through the burner preheater-while the burner consumes just a small portion. The pressure remains constant even while being run through a 10 micron filter. The only requirement is for a nozzle change-out every two years.



430 Nelson Place
La Crosse, WI 54601

Phone: 877-684-6688
Fax: 608-785-2868
Website: www.inov8-intl.com

INOV8 International, Inc.

INOV8

Technical Review

Engineering Technical Review
Dated: August 2007



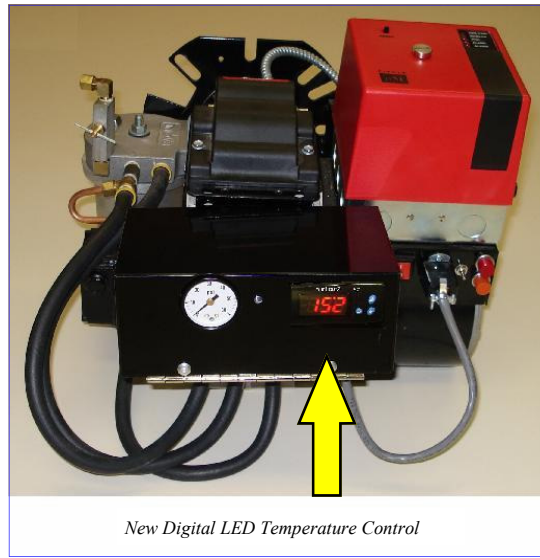
INOV8 International, Inc.

INOV8 In Review

Since the inception of INOV8 in 1990 there have been many opportunities to review the patented technology based on its application in various settings. The soundness of the design and the original patent have proven out over the many years. That covers such items as the preheat circulation loop (to prevent coking), the needle (to prevent drips & clear blockages), filtering the heated oil, using an industrial flame safety control and using aluminized steel in the construction of the furnace cabinet. The aluminized steel has proven far superior in heat transfer efficiency than stainless steel and more resistant to the corrosive nature of the ash remaining after burning crankcase oil. This means that in all these years, not even one INOV8 burner has caused an unsafe situation or damage to a customer's facility.

INOV8 products recently completed testing for recertifying to current safety standards for sales in the United States and Canada, including two oil tanks, four furnaces and two burners for application on boilers, water heaters and evaporators. Along with this certification, each summer INOV8 reviews the performance issues from the prior heating season. This evaluation covers production, component quality control and testing procedures. Over the years these reviews have yielded an impressive list of product improvements. Here is a sampling with the most recent enhancement listed last.

- **Fireeye safety control upgrade** to include a function called "main flame trial-for-ignition". That simply means that an extra safety check occurs that prevents fuel delivery when inappropriate preventing spills and unsafe conditions.
- The upgraded Fireeye control allowed for the **relocation of the UV sensor** under the transformer to standardize the location and improve its performance.
- **Electrical "quick" disconnects on burner**—for easy installation and/or removal for servicing.



New Digital LED Temperature Control

- **Flame Retention Head**—innovative design eliminates clinkers while enhancing the mixing of the fuel with the air for complete combustion.
- **Fuses** - relocated to convenient access and changed one to a circuit breaker.
- **Oil gauge** — relocated to the front of the burner for easier viewing.
- **Larger solenoids**—eliminate frequent cleaning.
- **Low profile transformer**—for a stronger spark and lighter weight.
- **Needle design improvement** to enhance function.
- **Digital LED Temperature Control**—New in 2007 this replaces bi-metal switches that controlled the preheater. This device allows the easy changing of the preheat settings to accommodate the different temperatures required to effectively burn various used oils. Crankcase oil, transmission fluid, solvents and hydraulic oils require a much lower preheat temperature than do synthetic crankcase oil, gear box, mineral or vegetable oil. The INOV8 burner has always had a switch to turn off the preheater when burning low flash point oils, such as #2, diesel, jet fuel or waste oil with gasoline. This new control gives complete and easy flexibility to the user for fuel choices.

Not burner related but equally important:

- **INOV8 furnaces** have been carefully engineered to extend life expectancy by protecting with powder coat and eliminating steel fatigue caused by hot spots that are just inherent in heating appliances. INOV8 was the first to use aluminized steel for construction and ceramic to protect the target area in the combustion chamber. Now we've re-designed a separation between the hottest area of the combustion chamber and the cooler heat exchanger to allow for independent thermal expansion.
- **INOV8 tanks** are the only ones in the industry that are engineered to provide the best possible oil to the burner. That is done two ways: 1) a settling chamber is built into each tank providing time for new oil to settle out the water and sludge, and 2) a float device holds the flexible oil line within a few inches of the top surface. This also continually removes gasoline from the surface for added safety.
- **In-line oil filter**—new in 2007, larger to extend the time between change-outs. A gauge on top of the filter mount tells when it's time to change the filter.

While INOV8 is not the largest company in the waste oil burning industry, our technology continues to improve in areas of safety, reliability, durability, efficiency, economy, in flexibility of fuels, and innovation for applications utilizing alternative and "green" fuels.

INOV8 International, Inc.

"Let the Buyer Beware"

Don't be duped by the marketing ploy of larger companies. INOV8's unmatched quality will guarantee your satisfaction with our products, service and support. Contact us today and let us help solve your energy and disposal challenges.