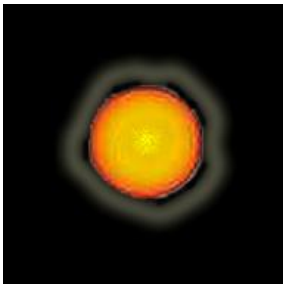
How the EnviroMagnetics Home Heating Fuel Super Saver Works

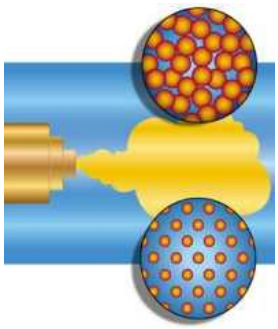
In any Combustion Chamber, fuel always burns in a spray of droplets

Big droplets burn dirty, smaller droplets burn cleaner.

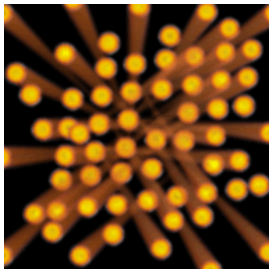
<u>The EMC Engineered Fuel System provides micro-droplets.</u>



EMC Energizers ionize each drop with a tiny electric charge creating instantaneous microdrops



The drop changes into the micro-droplets which burns better



Normal Combustion **Ortho Energized Combustion**

SAVE FUEL, SAVE MONEY and REDUCE EMISSIONS

The normal gas or liquid spray from injected fuel forms droplets (chemical associations - molecular clusters) which do not burn efficiently, wasting fuel in the form of unburned carbon emissions.

EnviroMagnetics Corporation's (EMC) Combustion Fuel Saver System uses an Ortho-Hydrogen fluid treatment that burns the fuel so completely, it releases substantially more heat energy, saving fuel and reducing emissions.

The Fuel Super Saver is based on NASA's Ortho-Hydrogen rocket fuel saving treatment which released more BTU energy from the fuel allowing the rocket's fuel to last longer. The science of Ortho-Hydrogen treatment has been well documented for many years in the CRC – The Engineer's Handbook - with the actual increased BTU test results of just about every simple and complex hydrocarbon molecule listed.

The electromotive energy of the Ortho-Hydrogen treatment going into the fuel works a little like a car battery or a dry cell. In a car battery, electrons flow between lead and zinc plates. The electrolyte is battery acid. In a 1.5 volt battery the electrolyte is a paste. In the EMC Energizer field, the electrolyte is the fuel. When the fuel passes through the EMC Energizer field, electrons flows naturally into fuel.

BREAKS FUEL DROPS INTO MICRODROPS

When the naturally clustered fuel molecules (chemical associations) are energized by the electrons, they repulse from each other, breaking up the clusters. Then as the fuel is sprayed into the combustion chamber, the excited electrons of the fuel instantly try to escape from the smaller fuel droplets by breaking through the surface tension of each droplet and forcing it to instantaneously split into thousands and millions of microdrops (see below).

MIDDLE MOLECULE BURN-THROUGH

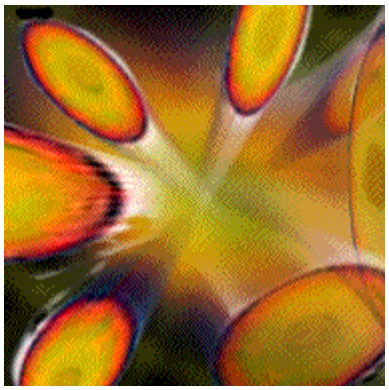
The <u>sum of surfaces</u> of millions of microdrops is exponentially greater than that of a few thousand normal size droplets. Think of the surface of a grapefruit. Now think of the total surface areas of 1,000 peas. Same volume - more total surface area. At ignition, the fuel molecules on the surface of any drop always burn first. Those in the middle always burn last. In the big droplet, the middle molecules only burn partially or not at all. Soot, smoke, hydrocarbon particulate, NOX and most other emissions are basically unburned or partially burned "middles."

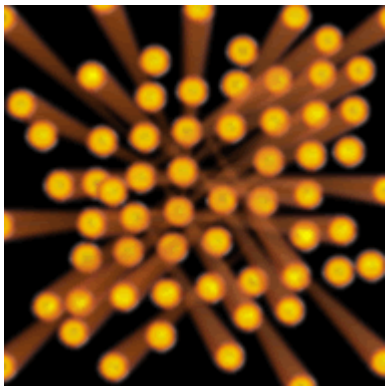
When the bigger droplets are instantly broken into microdrops, there are fewer molecules in the middle. The charged molecules are also dynamically attracted to the oxygen, resulting in a greater ionization, oxidation, and a greater BTU output resulting in using less fuel and saving money.

EnviroMagnetics Engineered Home Heating Fuel Super Saver generates permanent electromotive energy and comes with a Limited Lifetime Power Warranty. When moving, simply move the system to your next home.

Jet Propulsion Laboratory
California Institute of Technology

The correct number of electrons to induce the desired effect was defined by NASA as the Rayleigh Limit – 3.25 x 10^{27} electrons per drop per second. Given the correct charge, a normal droplet will break into *octolids* – eight equally shaped smaller droplets. These eight drops break into 64 microdrops, then 512, 4,096… and so on (think of splitting a grapefruit into halves, quarters, eighths, sixteenths, thirty-seconds, smaller and smaller..), until the combined strength of the electrons is no longer enough to break the surface tension of the last micro-drop. It all happens in a few nanoseconds.





IONIZED DROPS BREAK INTO 8 "OCTOLIDS" OR MICRODROPS... ...AND THEN INTO 64, 512, 4,096...MORE MICRODROPS THAT MIX BETTER WITH AIR.

THIS EFFECT TAKES PLACE IN 5 to 15 BILLIONTHS OF A SECOND. AS CHARGED DROPLETS, THEY MIX BETTER WITH OPPOSITELY CHARGED OXYGEN.

Normal Combustion

Ortho Energized Combustion

Click Here for
Home Heating: Fuel Oil, Natural Gas, or Propane
Fuel Savings Systems

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