

# A remarkable tinkerer who accidentally out-performed NASA.

By George Wiseman, version Feb. 23, 2011

This Information Release is about Darol Mason and his “Mighty Mite” version of Eagle-Research’s [HyZor Technology](#) (on-board Brown’s Gas electrolyzer).

In July 2008 Darol Mason bought one of our [HyZor kits](#). In late August of 2008, he sent us a testimonial “**Have just finished installation and testing of erHyZor and EFIE. We are very satisfied with a 61% increase in fuel efficiency**” By March 4, 2009 he had built his own version of HyZor and presented it for sale on eBay (see [Appendix A](#)). He then sent me a copy of a test report (see [Appendix B](#)).

I immediately saw that, **if true**, his version of the HyZor Technology was at least twice as efficient as our version C (which he had purchased). I asked a lot of questions to verify the results... AND to find out what he did to achieve such impressive electrolyzer efficiency.

Darol patiently and completely answered every question I asked. It took a couple of months, with Darol making follow up experiments and tests, for me to be completely convinced that his modifications of the HyZor **did get the gains he reported**. We eventually figured out the **main change** that caused his super-efficiency.

Since the version C HyZor *worked better than anything else he’d ever tried...* he wanted to make more, based on that design, and sell them. **He used his creativity to manufacture parts that he thought would do exactly the same job**. His parts (and how he put them together) contained simple and seemingly innocent modifications that **tripled** the HyZor efficiency.

[Darol’s current Mighty Mite design \(version 4.5\)](#) gets about 12 MMW (about 130% efficiency). **NASA electrolyzers don’t get 90% efficiency** even using exotic materials, electrolytes, high temperatures and high pressures. But to be fair... they aren’t making [Brown’s Gas](#) (BG).

Darol and I have started a collaboration to incorporate my improvements and his together. He bought specialized equipment for bench-top power supply control and gas volume testing. We have built dozens of test units and have learned a lot more ☺. We ultimately test our HyZors in vehicles, because there are several factors that cannot be duplicated with ‘bench testing’, (like the quality of the gas and CEIT adjustment) to optimize for the best performance.

I’m certain that our collaboration has produced the most practical on-board electrolyzer technology in the world. It can be built from common components and has performed up to 40 MMW or 0.5 Wh/L. We have made TWO significant and several minor advances in electrolyzer design. **We will be releasing these changes soon.**

May the Blessings Be  
George Wiseman  
Eagle-Research.com

# "Mighty Mite"

*The Most Efficient Hydrogen Generator on The Market*

***"ABSOLUTE ENGINEERING Miracle"***

**Continuous Output-----2 liters per min**

**600% Less Amperage Draw-----5 amps**

**Operating Temperature-----150 degrees**

**16 plates-----Twin Cells**

**Self Contained Bubbler**

**No Freeze up-----to -20F**

This unit, the **"Mighty Mite"** is the smallest and most compact,  
Yet produces the highest output per Ampere of any generator ever devised.  
It Actually has 2 individual generator cells, and the bubbler is self contained. No  
excessive alternator drain.

No replacing alternators every 6 months. No horsepower drain. Actually **increases  
horsepower.**

It is designed to fit comfortably in almost any vehicle, under hood installation. This unit  
is built in the design of an inverted "T" and is only 10.6 inches horizontal and 11.2  
inches verticle and 2.5 inches in diameter. Hydrogen output is more than sufficient for  
all V6, and most V8 engines. The increase in gas mileage in 4 and 6 cylinder Engines  
is **almost unbelievable.**

Every unit is hand built, one at a time, and fully bench tested with electrolytic fluid  
installed.

**"Fluid is removed before shipping."**

The Unit needs distilled water added approximately every 600 miles which is about  
each fill up of gas. Easy fill screw out plug on top of unit makes this a simple task. The  
2 inch diameter Bubbler tube is transparent so that you can easily see when the unit  
needs filling.

This unit is specifically designed to run with an electronic EFIE oxygen sensor device.  
We do not sell the EFIE device, however we will furnish you with 2 links to the 2 best  
EFIE units available.

We have spent over 2 years developing this unit. Borrowing ideas of what **not to do**  
from many other units that are advertised on ebay. The major portion on the design  
technology is directly attributable to

George Wiseman, founder and chief engineer of Eagle Research Inc. "An Absolute  
Genius"

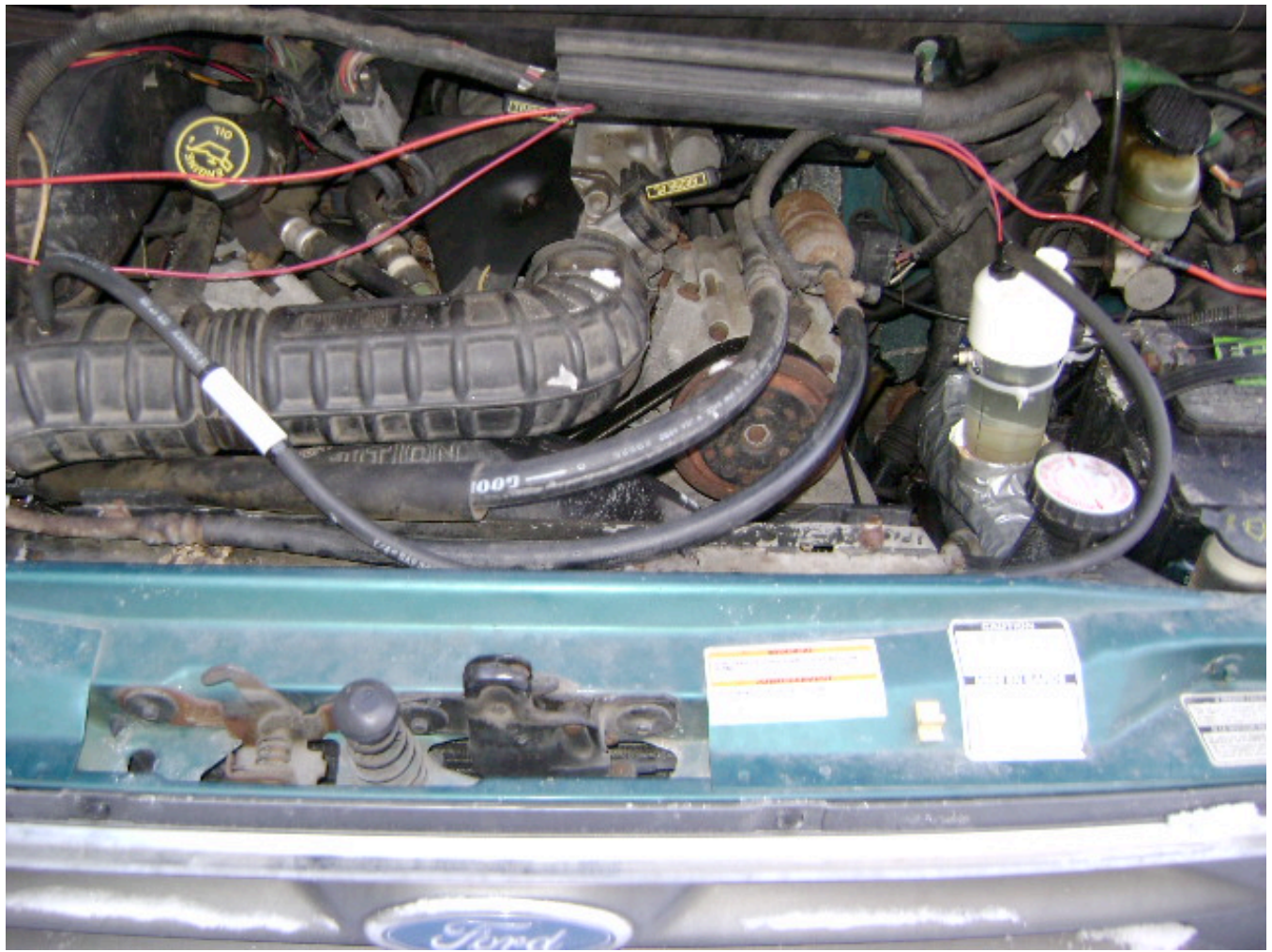
George was the first to realize the negative effects of high amperage draw generators

*and devise multiple cell, single source feed technology. This technology allows extremely high Hydrogen Output with minimal amperage draw on your Vehicle.*

Our test results on 3 vehicles,--one 2.0 liter 4 cylinder--one 4.2 liter V6 and--one 5.7 liter V8 showed increases in gas mileage from **39.32%** to **68.73%**. These tests were conducted for 6 months and almost 30,000 miles of normal daily driving. Over 2 months of these tests were conducted in Sub Zero weather conditions, where normal gas mileage is at an absolute minimum. Complete test results available upon request. Furnish your email address.




Darol Mason's first test Mighty Mite being tested. Current versions look the same but have significant changes inside.




# UWEC

## Science Laboratory Services

The following test results are prepared for D&N Automotive Engineering, Jim Falls WI.


Device tested was a "hydrogen generator" built by D&N Automotive. The construction of the exterior of the unit appears to be 2" ID. PVC. The unit is in the configuration of an inverted ( T ). The generating cells are in a horizontal position during operation of the unit. This unit is designed to operate in vehicles with a 12 V operating system. We were requested to measure the output of hydrogen at various voltage inputs in terms of liters or portions thereof. In conjunction we measured the temperature of the exterior of the "generator" in correlation with voltage input, amperage draw and operating time. Below are the results of our findings. 

Voltage	Elapsed Time	Temperature	HHO in liters	Amps
12.0 V	20 min	141 F	1.73 	4.5
13.0 V	40 min	147 F	1.82	4.8
13.5 V	60 min	150 F	1.98	5.0
13.8 V	80 min	156 F	2.13	5.3

### Summation of Findings

**We find the above results quite remarkable considering the overall size of the unit.** It is our understanding there are two independent generating cells in the horizontal portion of the unit. The vertical portion of the unit is made of transparent PVC, and acts a filtering device for the hydrogen. The bubbling action that takes place within the vertical portion is quite substantial in nature. The manner in which voltage is applied and distributed in combination with the design of the system is in our opinion accountable for the abnormally low amperage draw. Although without design plans for the interior components we cannot say with absolute certainty that this assumption is correct.

We were not furnished any design plans of the unit at the time of testing, and can not provide an assessment of the interior design or construction of this device.

  
Assistant Dean of Science  
01/12/2009