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# Ontario Trucking News

November 2010

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## Spotlight on... Espar Heater Systems

See page 4...



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This month's featured Traction location

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## HYDRA CAT PERFORMANCE SYSTEM

## Award Winning Hydrogen Generating Control System

Hydrogen Generating Control System Wins University Of Victoria Awards For Increasing Fuel Efficiency And Emission Control On Combustion Engines

In 2007 Mar and Dan Dinsmore suffered from Carbon Monoxide poisoning while crewing aboard an 85 foot yacht. After this near-death experience they returned home to Victoria, BC. Dan and Marlene have always been interested in hydrogen energy and this experience moved them to begin research in earnest for a product that could generate hydrogen, reducing or eliminating the amount of emissions combustion engines produce.

After three years of research and testing systems already on the market, they still found nothing strong enough for marine vessels or heavy construction application. So, finding nothing suitable on the market, they were determined to design their own solution, being a rugged water resistant hydrogen generator with a pulse width modulator control system which they named "The Hydra Cat Performance System."

*How does this benefit the Trucking Industry?*

The Hydra Cat Performance System is an affordable solution for emission control and reduces fuel costs and no modification to the engine takes place.

The generator separates water with a mixture of an electrolyte into an ionised gas, where it is fed into the air intake of the manifold. Once the gas enters the engine and mixes with the diesel

or gas, it allows the fuel to burn at a lower temperature and creates a complete burn. After that

more torque and horsepower is created increasing fuel efficiency which reduces your fuel bills by up to 30%. Emissions are also reduced up to 70%,

all of this with just the use of water.

The Hydra Cat Performance System is designed to handle combustion engines up to a 14 litre engine displacement.

The control system was the difficult part of the design. Dan, a Marine Electrical Engineer by trade, developed a constant current pulse width modulator that was water resistant and shockproof which is able to withstand the rigors of open sea or commercial vehicle use but it

needed to be developed into a computerized system.

The team of UVic graduating mechanical engineering students, Chris Chow, Brent Reynolds and Lee Adams at the University of Victoria took the project on, along with Dan and the team's hard work paid off. The new variable control system was a success and the Hydra Cat Performance System won the IDC Award for Innovation and Commercialization Potential as well as the UVic Mechatronic System Design award.

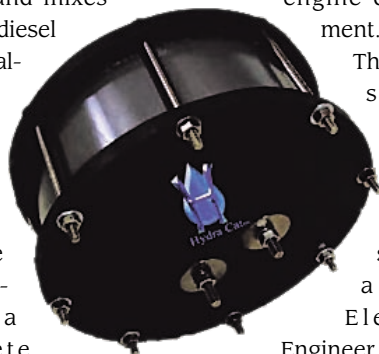
By installing their Hydra Cat Performance System, a transport fleet could save thousands of dollars in fuel, while enjoying

an affordable way to be green.

*How does this work with the new trucks and with the emission control systems now in place?*

The hydrogen generator is creating a cleaner burn, so there is less HC, NOX and CO being produced. The bottom line is that less fuel is used which will not harm the existing emission control systems.

For more information contact Dan Dinsmore, Hydra Cat Performance System at A1 Hydrogen Electric Energy Society, 778.426.4403 or 250.415.2093. Visit them at [www.hydrogen-electric-energy.ca](http://www.hydrogen-electric-energy.ca) or email [dan@hydrogen-electric-energy.ca](mailto:dan@hydrogen-electric-energy.ca). ■



## TRP AFTERMARKET PARTS

## Windshield Glass Products for All Makes of Trucks &amp; Tractors

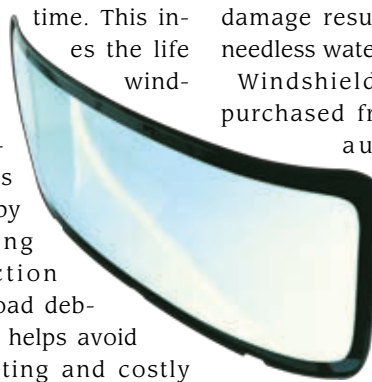
RENTON, WA - TRP Aftermarket Parts recently announced availability of a new line of high quality glass for all makes of Class 6, 7 and 8 trucks and tractors. "TRP glass products are manufactured and tested to OEM specifications to ensure optimal optical quality,

safety, surface contour and fit for each windshield," said Everett Seymoure, Global Manager for TRP.

"Since TRP offers windshields for popular all-makes truck applications, TRP can cover any company's diverse fleet requirements, including glass for Ford, Freight-

liner, Kenworth, Peterbilt, Mack, Navistar, Sterling, Volvo and Western Star vehicles," he added. "When the installation is done at a TRP authorized retailer, including Kenworth or Peterbilt dealerships, operators can expect the fit to be exact and the installation to be performed right the

first time. This increases the life of the windshield, improves safety by ensuring protection from road debris and helps avoid frustrating and costly



damage resulting from needless water leaks."

Windshields can be purchased from TRP's authorized retailers. "TRP has sought out the highest

quality glass to bring truck operators the highest value replacement glass," Seymoure added. TRP also offers operators high quality, competitively priced wiper blades and butyl installation tape.

For more information, visit [www.TRPParts.com](http://www.TRPParts.com). ■

## CUMMINS FILTRATION

## Redesigned Diesel Pro® Fuel Filtration Series

October 5, 2010 - Cummins Filtration (NYSE:CMI) has released two new Diesel Pro fuel filtration systems: Fleetguard FH235 with a flow rate of 60 GPH(230 L/H) and FH236 with a flow rate of 90 GPH(341L/H) Series Diesel Pro®. Diesel Pro Processors offer equipment operators superior uptime by removing more than 95 percent of free and emulsified water and hard particles down to 2 microns from diesel fuel systems.

The Diesel Pro Series is

a cutting-edge fuel system that uses Cummins Filtration's proprietary Strata-Pore™ media to meet and exceed OEM efficiency requirements. The patented Seeing is Believing technology lets users know when to change the Ele-Max™ filter element, saving them



time and money. The FH235 and FH236 series are designed to handle fuel flow rates up to 90GPM and provide several configurations to meet the most extreme environments and demanding applications. "Our first priority is customer satisfaction so we listen very carefully when customers provide input on our products," said Matthew R. Tullai,

Executive Director - Marketing

and Business Strategy for Cummins Filtration. "Every product we design and manufacture is based on meeting and exceeding customer needs, and the redesigned FH235 and FH236 Series does exactly that."

Key redesigned features include the clear bowl indicating when to drain and an improved collar, which allows for easy filter change. The upgraded series is available in multiple configurations to fit a variety of applications.

About Cummins Filtration

Cummins Filtration Inc. is a wholly owned business unit of Cummins Inc. and the world's leading designer and manufacturer of filtration and chemical technology products for all engine-powered equipment. The Company's product lines cover a wide variety of applications and markets, including heavy-, medium- and light-duty trucks; industrial equipment for construction, mining, agriculture and marine applications; as



well as products for the power generation industry. The Company's homepage can be found at [cumminsfiltration.com](http://cumminsfiltration.com). To

find a local Fleetguard product retailer, customers can visit the Worldwide Retail locator at [cumminsfiltration.com/wrl](http://cumminsfiltration.com/wrl). Find us on Facebook, Twitter and YouTube. In North America, customers can call Cummins Filtration at 1-800-22FILTER (1-800-223-4583) for more information. ■