Eco-Miser

Big Reduction of Fuel Cost

High Efficiency Combustion Supporting Device

By Supporting the Combustion of Internal Combustion Engines

The Eco-Miser System Aims at Reduction of Fuel Cost

& Preventiing Pollution

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Bluewater Technologies

www.ecoUSA.us

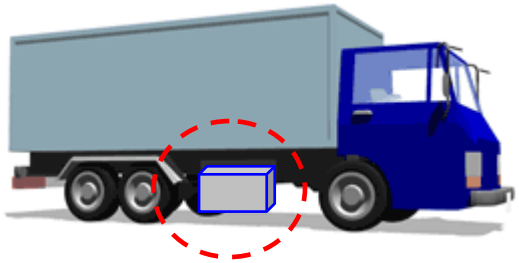
800.517.2575

What is the Eco-Miser System?

Eco-Miser System generates Oxy-hydrogen gas. . . Gas produced by a special device, supplies it for the engine and improves combustion efficiency

Without the system

With the system



Increasing engine output by the injection of oxy-hydrogen gas will result in increased power output.

Reduced fuel costs are achieved from from more efficent use of fuel by the same engine, it leads to the reduction of fuel costs.

The reduction in CO_2 exhaust also leads to reduced levels of nitrogen oxides (NOx) and particulate matter (PM).

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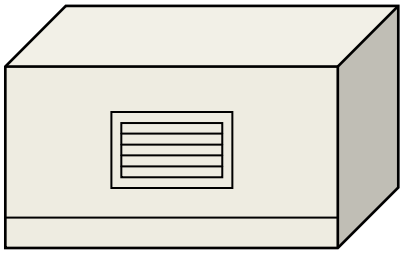
The Eco-Miser System unit



Dimensions

20 in × 16 in x 18 in×

Small modification is allowed according to the installation space.

One quart of pure water should be supplied approx. every 625 miles.
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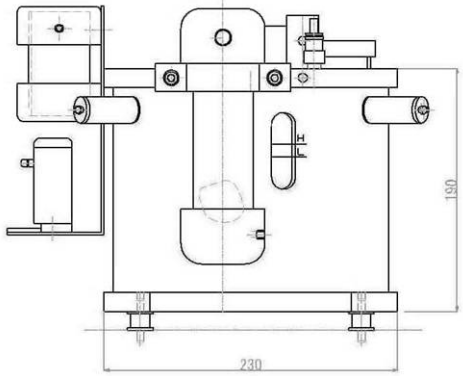
Electrolysis Tank



Air cooler

Controller

Specifications of the system

Voltage input

Voltage electrolysis

Pure water catalyst

Dimensions of tank 9 in x 9 in x 7 in

Control method temperature control with forced circulating air cooler

Capacity of gas production

Max 450cc/min

Option Automatic water supplier

Rolling protection device

The system is consist of Electrolysis tank, Water cooler and Controller.

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Introduction of Eco-Miser System

The Eco-Miser System is designed to be adjustable -- to the engine and the installation space. Therefore, the specifications of the vehicle or the marine vessel should be confirmed beforehand.

Prior confirmation items
- Type of vehicle
- Manufactured year
- Type of engine
- Displacement

↓

Confirmation of the vehicle
- Installation space
- Position of installation

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Preparation of setting bracket

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Installation of the system

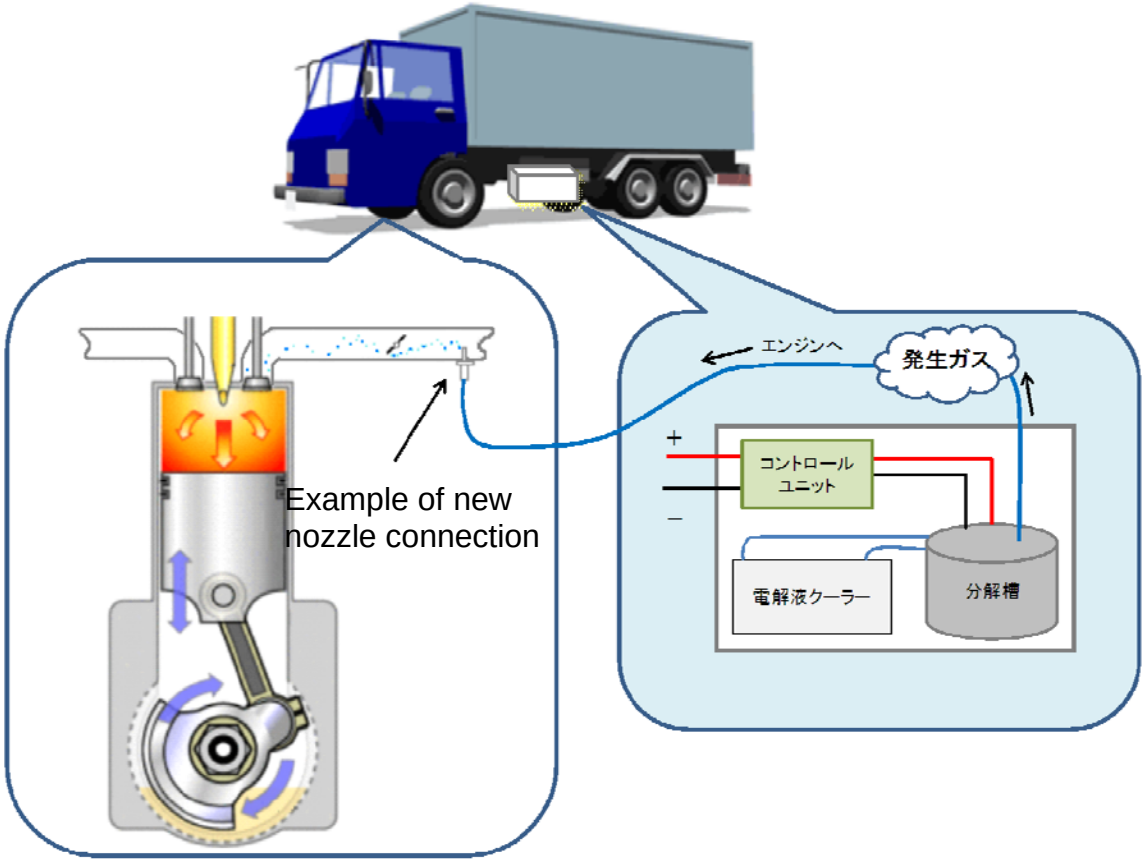
In the case of a truck, it is recommended to install the system on the chassis.

Installation of Eco-Miser System

Connection of gas tube

HHO gas tube to be inserted into

Air intake pipe of the engine.



Installation work is completed after mounting the device, electric wiring , gas nozzle fitting and gas tube connection.

Running Test of Eco-Miser System on Trucks

Eco-Miser Booster System Driving Test

Vehicle Tested: Izuzu 4.5 Ton Loading Truck – recorded by digital tachograph
Departure Point: Nanao City, Ishkawa

Date	Destination	Miles	Effect (mpg)	Remarks
Nov 1 (Tue)	Kanazawa	244	11.4	Without Miser *
2 (Wed)	Kanazawa	209	13.5	With Miser
3 (Thu)	Kanazawa	243	14.2	|
4 (Fri)	Kanazawa	238	14.0	|
7 (Mon)	Kanazawa	238	14.0	|
8 (Tue)	Kanazawa	238	14.0	|
9 (Wed)	Kanazawa	238	14.0	|
10 (Thu)	Kanazawa	566	14.0	|
11 (Fri)	Fukui	213	14.0	|
14 (Mon)	Fukui	235	14.0	|
15 (Tue)	Fukui	206	14.0	|
16 (Wed)	Kanazawa	238	14.0	|
17 (Thu)	Kanazawa	233	14.0	|
18 (Fri)	Kanazawa	233	14.0	|
21 (Mon)	Kanazawa	238	14.0	|
22 (Tue)	Kanazawa	227	14.2	|
24 (Thu)	Takasaki	573	14.0	|
25 (Fri)	Kanazawa	229	14.2	|
28 (Mon)	Kanazawa	226	14.2	|
29 (Tue)	Kanazawa	236	14.2	|
30 (Wed)	Kanazawa	239	13.5	|
		5536 miles		

Average driving time: 8:30 am to 5:00 pm
***Benchmark**: 11.4 miles per gallon

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Achieved reduction of 20% plus
(to a maximum of 30%) in fuel costs.

Average fuel cost also improved by 25%

from 11.4 mpg to 14.2 mpg

The truck used for the test was driven by the same driver, who said that he felt increased engine output.

For other trucks, fuel efficiency improve ments of 20 - 30% were observed. Variables included: traffic, amount of mountain driving and load weight.

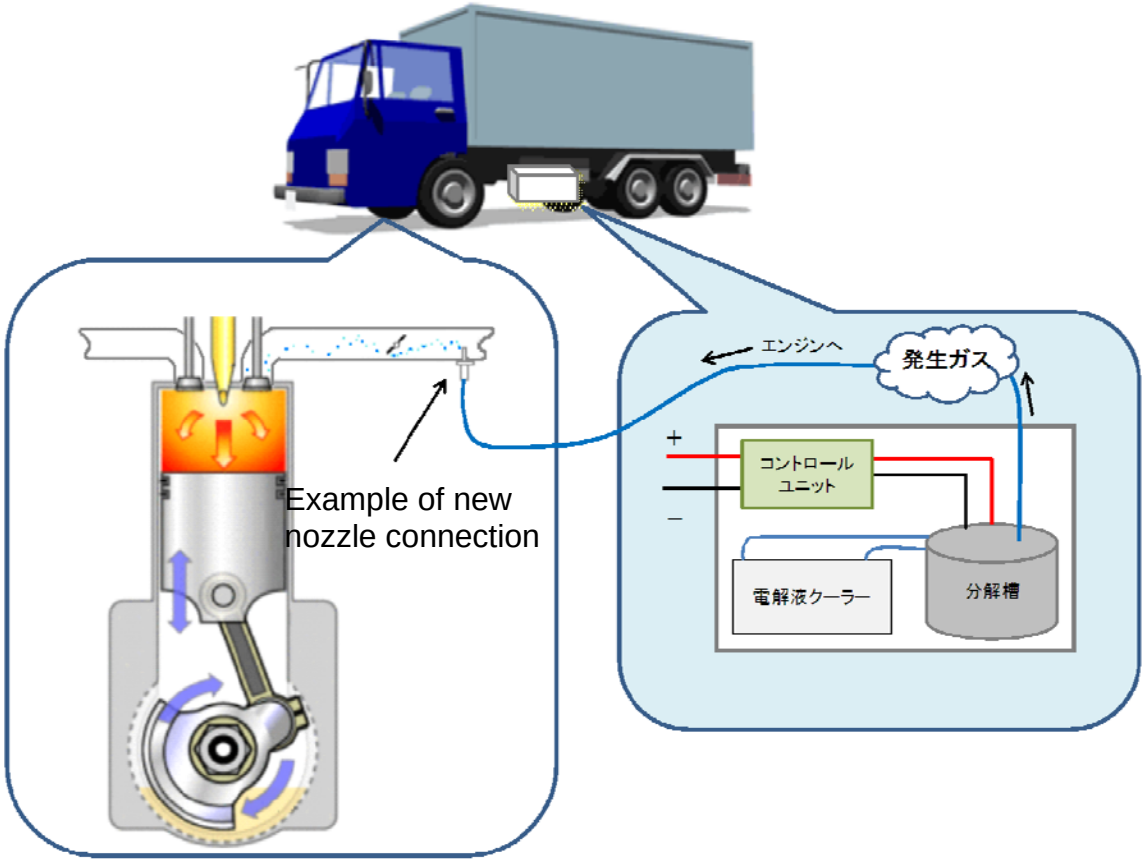
Driving Test Table -- Blank Form

Installation of Eco-Miser System

Connection of gas tube

HHO gas tube to be inserted into

Air intake pipe of the engine.



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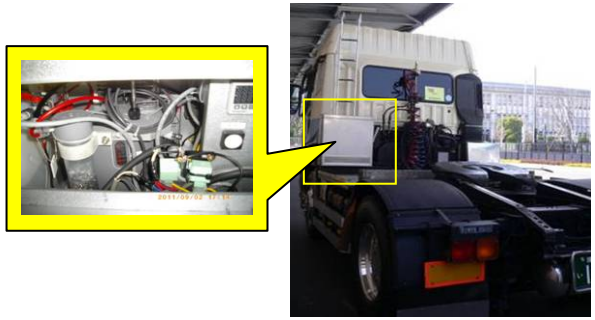
Applications For Eco-Miser

FUSO Trailer Head



The body is installed on the chassis and gas pipes are on the engine.

20 systems were in the testing program (in one year)

6 systems were installed on marine vessels.

A system with gyroscopic functions is in development for marine vessels and construction equipment.

Many transportation firms, fisherman and marine associations

are now studying feasibilty of the system.

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