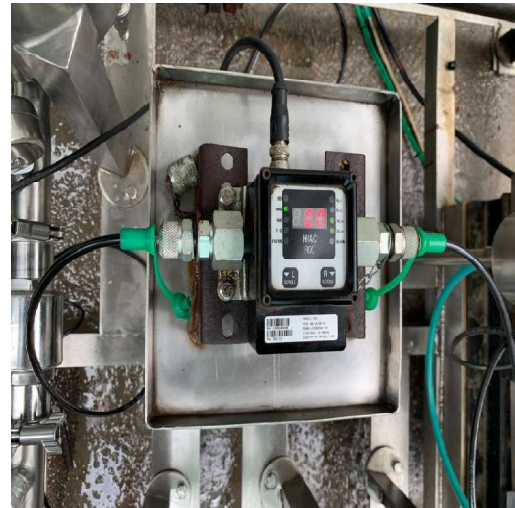




Specification Sheet

OFFLINE KIDNEY LOOP DIESEL FILTRATION SYSTEM

This system will provide ultraclean fuel to new generation diesel generators.



- This is an offline system which will be placed between underground tanks.
- This system will clean the fuel while re-circulating it between one tank to another.
- The system will have a flameproof motor to give fuel the desired operating pressure it needs for filtration.

PRODUCT SPECIFICATIONS

It is a Four Stage filtration system consisting of: -

- Basket Strainer-100 microns
- Absolute pleated filter cartridge-10 microns
- Absolute pleated filter cartridge-2 microns
- Coalescer and separator –for water removal

UNIQUENESS OF OUR SYSTEM

- It gives real-time monitoring of the diesel Quality in terms of ISO and NAS values.
- And it can be integrated with your online system.

CASE STUDIES

- Iveco Power star 6500, fitted with a Caterpillar C12 Euro 3 diesel engine
 - Fuel economy improved by 4.9%**
 - Engine Horsepower increased by nearly 2.0%**
 - Extends life of OEM filters and oil by 300%**
 - Extends the life of fuel pumps and injectors by maintaining fuel cleanliness.**
 - Improves risk management and extends engine longevity.**
 - Reduces NOx by 15.0%**
 - Reduces CO by over 1.2%**
 - Reduces CO2 4.9%**
 - Reduces Solid Particle Emissions by 25.7%**
- As depicted by the above table, the reduction of polluting emissions is 75.44 g/km.
- A fuel saving of 4.9% demonstrates considerable financial savings to an end user.

FUEL QUALITY REQUIRED BY ENGINES

Tier 4 Fuel Quality Requirements

| Organization | Particulate ISO 4406 | Water |
|------------------------|---|--|
| Bosch | 11/8/6 at injector | <200 ppm |
| CAT | 18/16/13 at storage | <500 ppm |
| CUMMINS | 18/16/13 at storage 11/8/3 at injector | <200 ppm |
| Worldwide Fuel Charter | 18/16/13 | No free or emulsified, dissolved <200 ppm |

Most diesel storage tank owners, maintenance staff and company buyers are not knowledgeable of these guidelines.

GLOBAL SCENARIP

- Filtration is carried out in U.S.A & some parts of Europe.
- Filtration is done at 2 points:
 - a. At the inlet of the storage/underground tank.
 - b. Before the dispensing unit.
- According to World Fuel Charter, the fuel dispensed should be NAS 7.
- In Greece EKO introduced double filtered diesel in Oct 14, their sales increased by 15% and 1% market share even after increasing their fuel cost by Rs 5.25 /liter.

COMPLETE PACKAGE

- The Filtration system will be installed and commissioned by SS Filters team at every site.
- Each underground tank has to be connected to the inlet as well as outlet of the filtration system.
- The circulation will help the fuel to be always clean.
- A unique system which ensures that your generator never fails.