



BULK APPLICATIONS

Why we are DIFFERENT

Our innovative Product range's ability to effectively remove harmful contaminants, including suspended water from various types of diesel, HVO and bio-diesel is a significant advantage.

Specialising in diverse filtration systems to ensure that stored or received fuel (bulk, transfer or day tanks) remain at the 'Highest quality attainable' as standard Our innovative dirt and water holding capacity provides market leading efficiency.

TIME UNDER TENSION

Conceptualised, designed and manufactured in Africa to withstand the harsh conditions prevalent to the continent.

Developed over several years to address all the various facets related to Generators, being:

- **Kidney filtration and tank cleaning** of Bulk & Day tanks;
- **Fuel transfer inbound & outbound** tank filtration;
- **Under Genset** day tank kidney & cleaning filtration and the last defence **pre-filtration fitted on the Generator engine**.
- **Full verification of Diesel quality in real-time** whether during startup, transfer or periodic circulation.

DESIGNED TO SPECIFICATION

- Our **Modular** approach adapts each site to the customer's individual needs.
- **Plug & Play** easy installation
- Enables any bulk fuel filtration scenario to be addressed from commercial applications to **OEM warranty cleanliness levels**.

Our vast range of state-of-the-art filtration options, especially designed around generators ensuring that the power stays on. There are simply **no fuel related issues** with our **reliable and efficient** systems.

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RECEIVING



Discover our reliable solutions that not only provide secure on-site fuel storage, but also guarantee contamination-free fuel procurement and transfer to storage tanks

- We have proven solutions to address not only the storage of the fuel on site, but further to ensure that the fuel received on site and transferred to the storage tanks is free from contamination. Our offerings include:
- Bulk receiving filtration in real time, effectively identifying and removing any suspended and free water during delivery.
- Circulation systems in receiving tanks, bulk tanks, and day tanks, accommodating high flow rates to agitate the fuel and remove all suspended water, without relying on magnets or static coalescing filters.
- Fuel transfer filtration to ensure clean fuel throughout the transfer process.
- Various bulk and day tank cleaning systems, guaranteeing a clean and reliable fuel storage environment.

DISPENSING

iCerMax™ installed a groundbreaking filtration system on commercial public service station pumps. This revolutionary system, equipped with our innovative iAquaMax™ filtration technology, addresses the prevalent issue of water in suspension in diesel fuel.

Water in suspension is a significant problem, particularly in coastal areas, and is the leading cause of injector failure in common rail engines. With our system, every liter of diesel fuel you purchase is filtered before your eyes during the dispensing process, guaranteeing the utmost quality.

Unlike current systems that rely solely on pump spin-on strainer filters, which only remove large particles, our iCerMax™ system goes above and beyond by effectively removing suspended water. Conventional spin-on filters are inadequate and cannot provide the same level of water removal capabilities.

By using our iCerMax™ Dispensing Point Filtration System, you can rest assured that the diesel fuel you purchase is free from suspended water and meets the commercial particle cleanliness levels of SANS 342:2014. This comes at no extra cost to you, as we believe in providing clean and high-quality fuel to all customers.



ON BOARD



iCerMax™ Duo-AquaTrap™ filter is an onboard filter with a unique "2 X 2" Ultra injector protection system that combines four different filtration methodologies into one filter.

With its transparent bowl design, the Duo-AquaTrap™ allows for easy inspection of fuel quality. The unit offers versatile mounting options and can be adapted to fit other dominant market devices.

- Filters include a Water Trap, an On Board Spin-on filter, and a Depth Synthetic Filter.
- Ideal for African diesel contamination and used by various OEMs and African operating companies.
- Operates in a four-stage system, separating water and removing dirt particles.
- Allows for easy fuel quality inspection with a transparent bowl design.
- Offers multiple mounting options and can be adapted to fit other devices.
- Available in various installation configuration kits for different diesel engines.
- Provides sustainable fuel cleanliness and asset protection.

TRANSFER

The proprietary iCerMax™ transfer systems are the ultimate solution for addressing fuel storage and contamination challenges. Available in various capacities, suitable for minor filtration all the way up to high flow rates of 500 liters per minute, offering both manual and fully automated options.

Tank contamination is a common problem as particles and water accumulate over time. Unfortunately, most on-board equipment filters are overwhelmed by the sheer volume of contamination, leading to compromised filtration and catastrophic effects on the injector system.

With iCerMax™ systems, you can effectively handle the vast amount of particle sludge and suspended/free water in a cost-effective and user-friendly manner. We offer proven solutions that ensure fuel received and transferred to storage tanks is free from contamination. This is particularly important in countries where heavy particle and water fuel contamination is prevalent, along with local "water" dilution taxes.

Don't let fuel contamination compromise your system. Choose iCerMax™ systems for reliable and efficient filtration, safeguarding your equipment and ensuring the longevity of your assets.



KIDNEY

Our industry-leading kidney cleaning systems are designed to accommodate any size bulk tanks, day tanks, fuel transfers, or on-board equipment tanks during truck servicing. With various specifications available, from minor filtration to high-volume 500 liters per minute systems, offering both manual and fully automated options.

Over time, tanks accumulate contamination, including particles and water, at the bottom. This buildup becomes critical when it overwhelms the on-board equipment filters, resulting in compromised filtration and potential damage to the common rail injector system. iCerMax™ systems are specifically designed to efficiently handle this extensive particle sludge and suspended/free water, offering a cost-effective and user-friendly kidney system solution.

Our iAquaMax™ proprietary water removal technology effectively removes both free and suspended water, while iCerMax™ utilizes specially designed bag filters to meet the required cleanliness levels according to "iSo" standards. These cleanliness levels are achieved at an unmatched low cost per liter, thanks to our cost-effective filter bags that outperform traditional spin-on technology and filter cartridges.

iCerMax™ kidney systems challenge conventional filtration thinking by pioneering greater cleanliness levels while remaining economically viable for consumers. With iSo-SpecSure™, our proprietary patented advanced particle filtration mediums,



TANK CLEANING

When it comes to filtering bulk tanks, day tanks, fuel transfers, or on-board equipment iCerMax™ accommodates any size tank.



fuel transfers, or on-board equipment iCerMax™

Our solutions offer unmatched capacity, efficiency and functionality. With our proprietary methodology for sustainable removal of both free and suspended water.

The icermax filtration systems inhibits sediment filtration caking on the water separation mediums, ensuring optimal coalescence performance.

The icermax filtration systems inhibits sediment filtration caking on the water separation mediums, ensuring optimal coalescence performance while [placeholder,,]

- High-flow tank agitation and contamination removal, guaranteeing longer diesel storage life;
- Without use of magnets or small static coalescent cones that can only remove free water at ultra-low flow rates.
- No size constraints as our filter sizes are adequate and modular to match any tank volume or diesel utility.

TANK PROTECTION

AIR BREATHERS

While the weather influences the environment surrounding the fuel tank, whether below or above-ground from temperature to condensation, through wind carrying airborne dirt.

The typical fuel tank requires the installation of functional air breathers. While the tank 'breathes' during climate changes the breather filters will ensure that no compounding dirt ingress negatively influences your filtration efforts.

ANTI-FUEL THEFT

Where there is diesel, there is theft!

This is a common occurrence seen in many sectors of industry. Electronic monitoring and fuel records don't stop the daily consistence of small batch theft.

icermax has a product range that fits any LDV, HCV, plant & equipment tank from onboard to exceedingly large sized tanks.



HIGH FLOW >500Lpm



Suitable for Kidney and Cleaning applications.

- High flow rates

IsoSpecure (multilayer, multimedia, multi Bulk (500lpm). IsoSpecure - cleanliness

- Ideal for regular capacity similar to surface cleaning.
- Preventing contamination buildup in tanks infested with fungal growth, sludge and water issues

MODERATE >250LPM

High cleanliness levels

pre multifiltration and specsure filtration

Various cartridge options to accommodate function & size



LOW 120-240LPM

Three Phase filtration.

Flow rates from 56Lpm, 72 Lpm, & 120Lpm.

Various water trap options

Available in various filter combinations and filter sizes



ONBOARD 3-7LPM

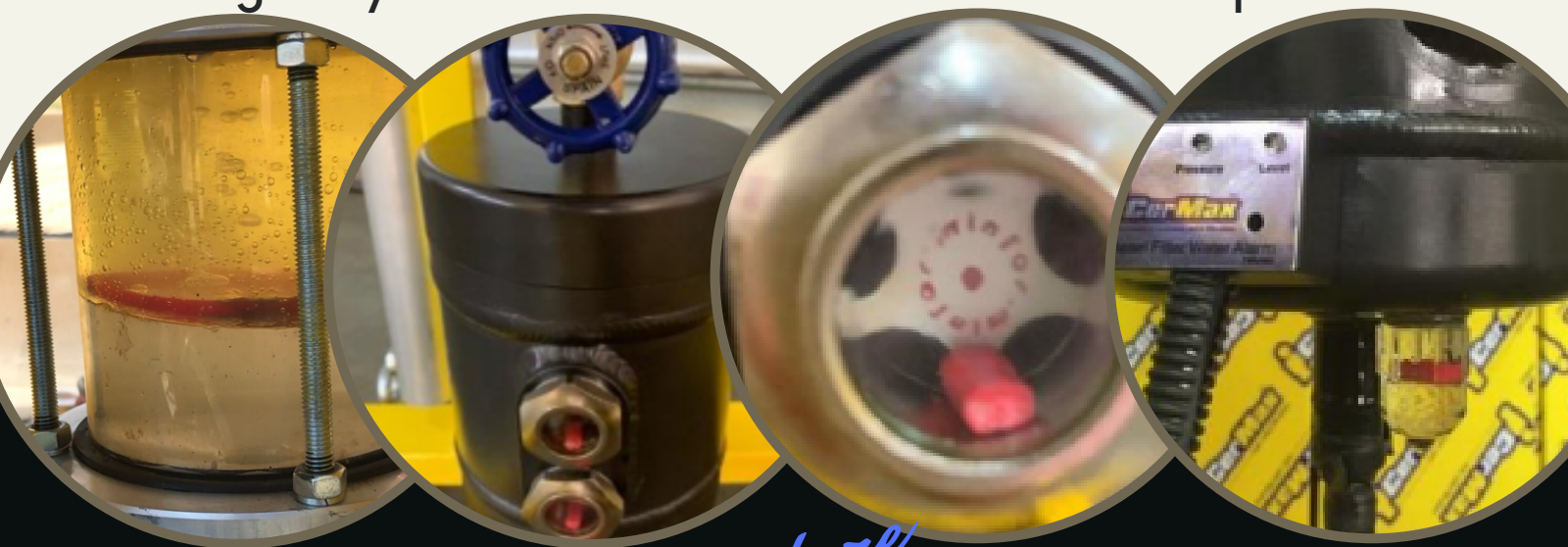
Used as a preventative prefiltration point, provides a safety net for generators, ensuring peak performance even in remote locations.

Protects from Fuel that's transferred before the cycle times of the kidney circulation system.



WATER TRAPS

Water traps are key to removing water away from the filtration medium, as a build-up of water next to the filtration medium will lead to it compromising. The water will simply be pushed / pass through any filtration medium due to differential pressure.



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SOME SITES



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