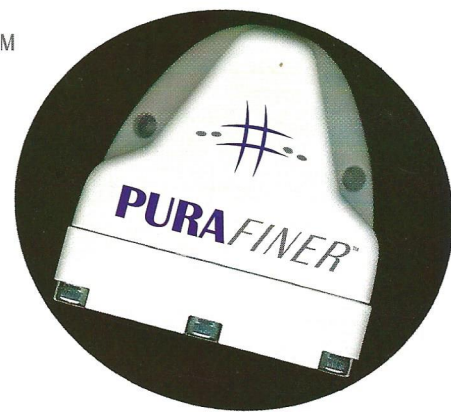


PURAFINER™

DIESEL FUEL PROTECTION



- NO MORE PLUGGED FILTERS AND TANK CLEANING
- EXTENDED PUMP, INJECTOR AND FUEL LIFE
- ENHANCED COMBUSTION AND FILTER LIFE
- ENGINES RUN BETTER, SMOKE LESS
- LESS MAINTENANCE AND DOWNTIME

PURAFINER™

Controls Microbial Contamination



... prevents plugged filters, and continuously cleans your fuel system by simply running your engine or circulating pump

PURAFINER™ prevents plugged filters and tank cleaning, increases the life of injectors and pumps, reduces maintenance and downtime while improving engine reliability and safety. All without the use of toxic biocides!

PURAFINER™ is easily installed in the fuel line, between the tank and the filter. These units are **direct flowthru** and **self cleaning** with no moving parts.

MICROBIAL CONTAMINATION

Hydrocarbon distillates such as diesel fuel, gasoline, jet fuel, hydraulic oil etc. are organic fluids. They are food for bacteria, fungi, yeast and mould that rapidly deteriorate the quality of the fuel. Microbes can be airborne or waterborne (water is always present in fuel)

Modern refining techniques, additives, fuel storage and transport systems all contribute to contamination and are determining factors in the shelf life of fuel. Additives, in particular those rich in nitrogen and / or phosphorous, enhance microbial growth and accelerate the process of biodegradation.

TRADITIONAL FILTRATION + PURAFINER™ = TOTAL FILTRATION

- No more plugged filters and tank cleaning
- Extended pump, injector and fuel life
- Enhanced combustion and filter life
- Engines run better, smoke less
- Less maintenance and downtime
- Lower operating costs
- Increased safety and reliability



CONTAMINATED FUEL

MICROBIAL DEBRIS

TRADITIONAL FILTRATION

Traditional filtration was designed to remove particulate and water from fuel. Filters have difficulty keeping up with the removal of the **by-products** of bacterial and enzyme activity - the sludge and slime commonly referred to as **"the bug"**.

The use of biocides often aggravates this filtration problem. Traditional maintenance programs call for changing filter cartridges every 100-200 hours. With clean **"bug free"** fuel, filters should last 1,000 hours or more.

MICROBIAL SYMPTOMS

Contamination is easily recognised:

STEEL TANK
CORROSION CAUSED BY
SULPHUR REDUCING
BACTERIA (SRB)



- Plugged slimy filters
- Dark, hazy fuel
- Jelly like slime
- Loss of power
- Excessive smoke
- Corroded injectors
- Foul odour

**THOUSANDS OF UNITS SOLD
IN USA & EUROPE**

HOW PURAFINER® WORKS

PURAFINER® is not a filter. It is a magnetic treatment unit. The effects on the bacteria are immediate. As the fuel passes through the unit the bacteria disrupt. The individual spores are in the one micron size range and will pass through the fuel filter/s and burn with the fuel.






The fuel returning to the tank will contain spores that due to the effect of the magnetic field will be in a "dormant form", reduced in size and inhibited from reproducing. These spores will in turn be exhausted through the system giving the engine a continuous supply of clean fuel. Should the fuel supplied to the engine at a later date be contaminated PURAFINER® will operate to ensure that microbial contamination does not reoccur.

NEW FROM PURAFINER™



Most trucks and light vehicles use flexible fuel line, fitting a unit is easy. Check the I.D. of the fuel line, select the correct PURAFINER® FXB unit, remove a short length of fuel line, install the barbed unit in the line prior to the filters and gain the benefits of bacteria decontaminated fuel.

PURAFINER® SPECIFICATIONS ETA SERIES

Port size	ETA100	ETA400	ETA1000	ETA1200	ETA2000
					
	1/4"	3/8"	1/2"	3/4"	1"

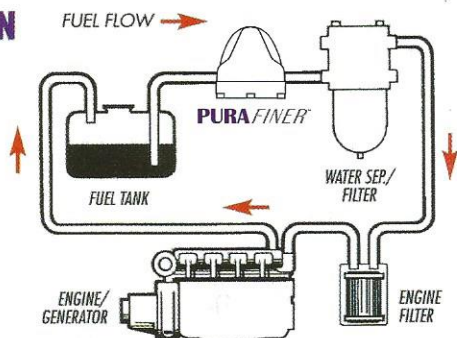
For the full range of PURAFINER® units, aluminium threaded, steel threaded, flexible fuel line and flanged please refer to our website www.purafiner.com.

SELECTION:

Selection of the correct size PURAFINER® unit is simple. Check the internal diameter of the fuel line and select the corresponding PURAFINER® unit. i.e. If the fuel line I.D. is 1/2" then select PURAFINER® model ETA 1000.

MATERIAL: Units are available in marine grade aluminium, steel and stainless steel depending on application.

INSTALLATION DIAGRAM:



PURAFINER® is a trademark of Purifiner Distributors (NZ) Ltd



Fishing Boats - Iceland

NEW IN EUROPE

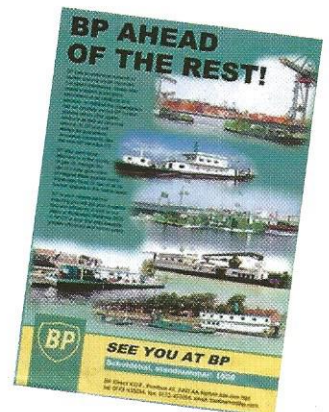
PURAFINER® units for bunker ships and bulk storage. Over 80 bunker ships in The Netherlands, 5 in Belgium and 3 in Germany have been fitted with New Zealand made decontamination units, One bunker ship has 6 units fitted.

In the Netherlands, all suppliers of BP diesel fuel.

In Belgium, Agaat N.V. suppliers of Shell products.

In Germany, suppliers of BP products.

Suppliers of Gulf, Mobil and Total-Fina have also fitted decontamination units to ensure their customers receive bacteria decontaminated fuel. These large capacity units, up to 8" inlet/outlet treat the fuel as it is pumped into the bunker ship from the shore installation and again on delivery to the barges and workboats operating throughout Europe.



PURAFINER™

IT WORKS - ANALYSIS PROVES IT!

DISTRIBUTED BY:

PURAFINER® SALES

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