

**CONTAMINATION
ELIMINATION**



FUEL ACTIVE

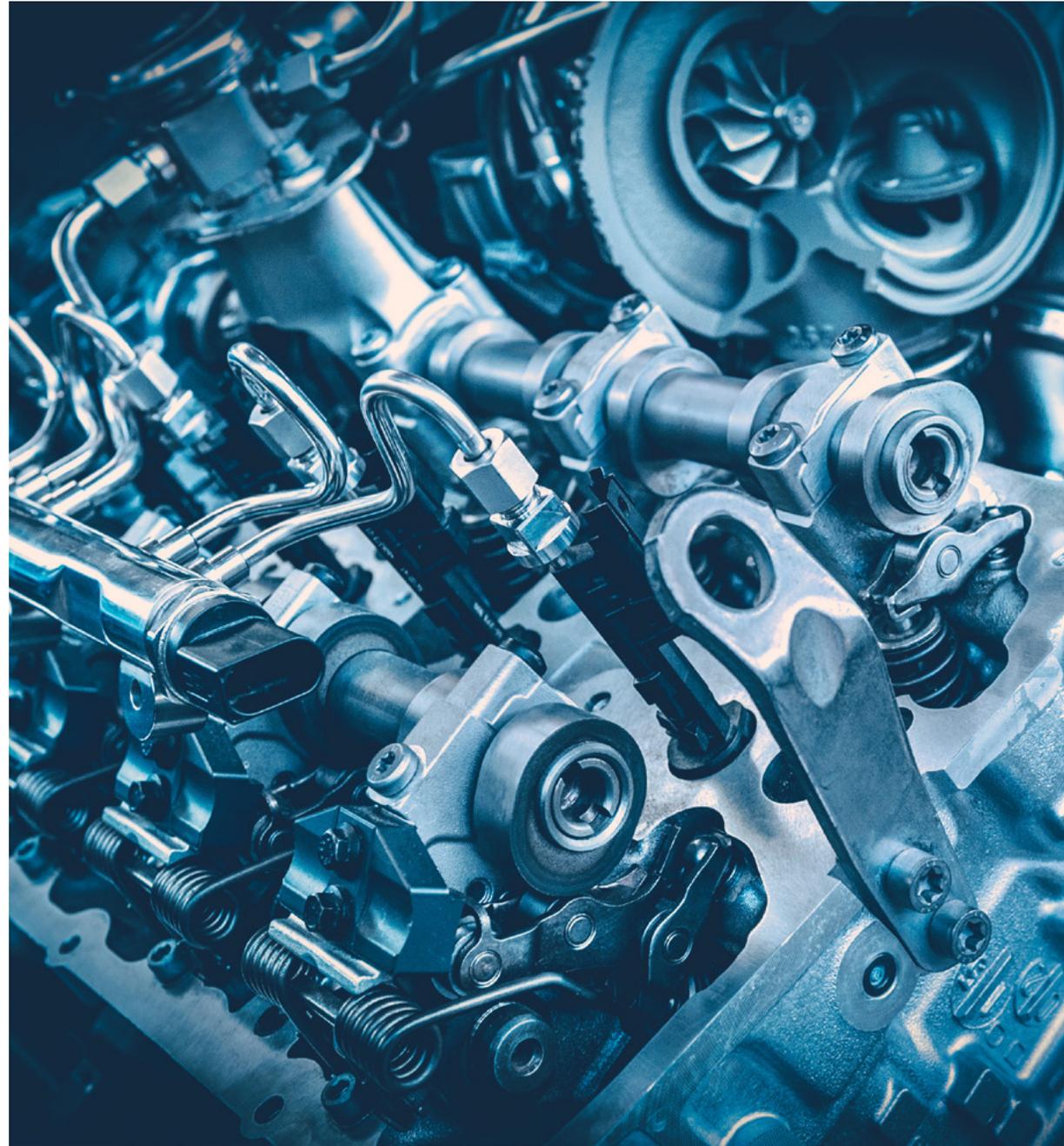
An expensive global problem

Diesel Fuel Contamination

Approximately 80 percent of machine downtime or premature maintenance is caused by fuel contamination.

This is a global problem affecting companies in the construction industry, in mining, power-generation, agriculture, transportation and many other sectors. Fuel contamination drives up operating costs by unduly increasing repair and maintenance budgets, reducing productivity and eroding capital efficiency. With the engine operating at lower thermal efficiency, it can lead to increased harmful emissions and reduced fuel economy. The operator also runs a serious risk of causing a catastrophic engine failure on the jobsite.

There are multiple aftermarket solutions for fuel contamination, but all require regular servicing and replacement parts. There is only one in-tank, fit-and-forget product – FuelActive.



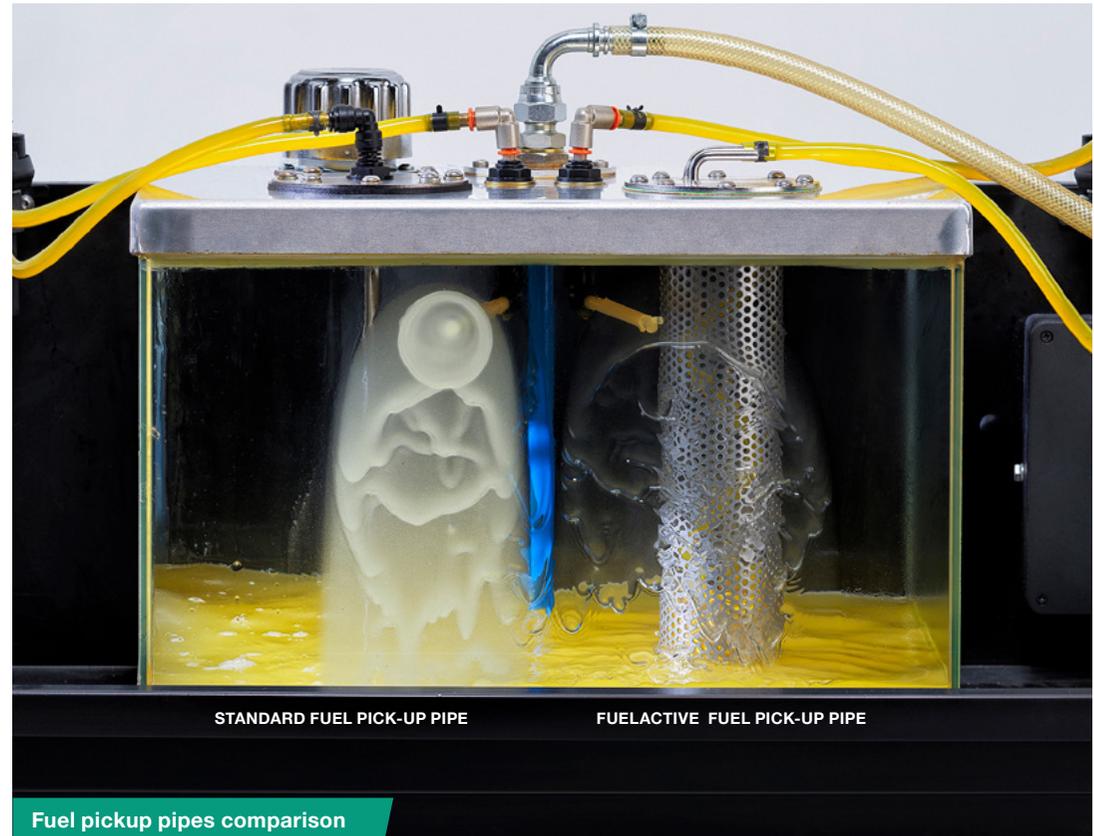
FuelActive is a game changer in the battle against diesel fuel contamination

How FuelActive Works

The patented FuelActive fuel pickup unit is a unique, innovative solution to the problem of fuel contamination in diesel engines. Unlike a standard fuel pickup pipe, the revolutionary FuelActive unit uses a floating pickup pipe that draws clean fuel from the top of the fuel level, thus avoiding the harmful contaminants that settle at the bottom.

Contaminants like solid particles and water can hamper or ruin the efficiency of even the finest fuel-injection systems. Having the most effective filtration, which starts with a clean pickup method inside the tank, is vital to ensuring that all diesel-powered engines operate at the highest level of efficiency.

The introduction of the high-pressure common rail with injection pressures of >2500 Bar has further exacerbated the need to operate with clean fuel.



How FuelActive helps

Easy to fit

Qualified technicians can install the FuelActive unit in less than an hour, in nearly all applications. FuelActive goes to work immediately, protecting your engine from the effects of diesel fuel contamination.

Built to last

FuelActive works in virtually all environments, from the sub-zero slopes of the Himalayas to the desert dunes of the sub-Saharan region. It operates in temperatures ranging from -30°C to 50°C .

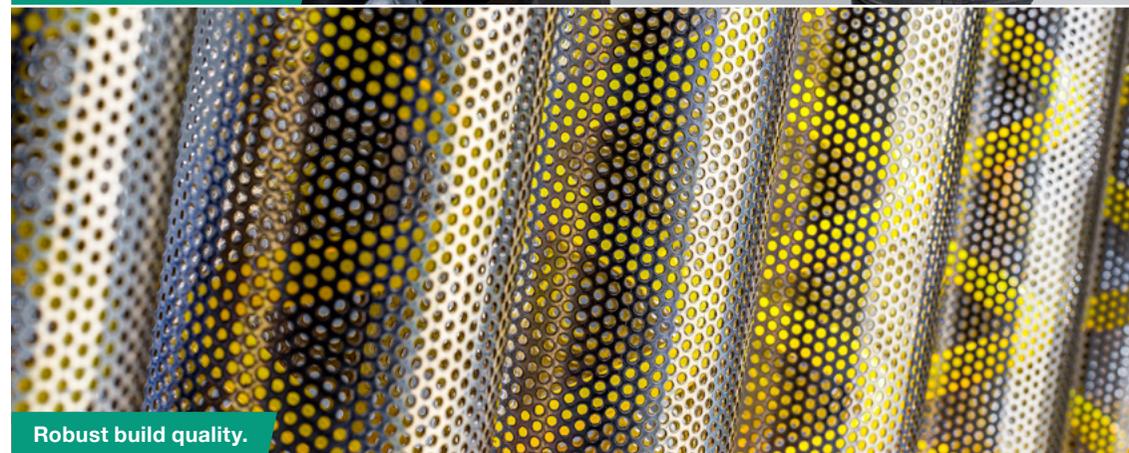
FuelActive is manufactured using high-grade materials designed specifically for working with hydrocarbon fuels. It is backed by a five-year warranty on all standard products.

Zero maintenance

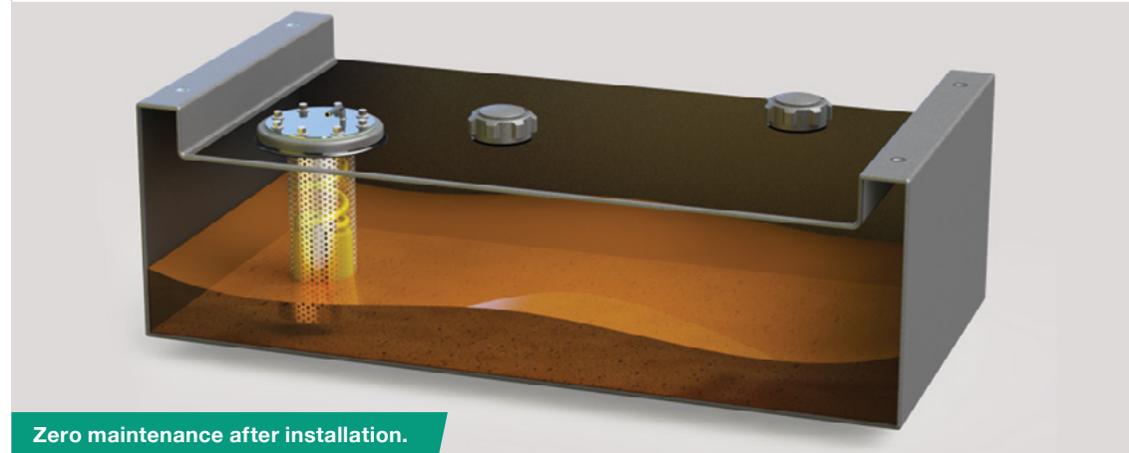
The FuelActive unit is unique in targeting the crippling effects of fuel contamination. It requires no maintenance after installation. It's truly fit & forget technology.



Fit in less than an hour.



Robust build quality.



Zero maintenance after installation.

FuelActive has many benefits



Increases Machine Uptime

Burning cleaner fuel protects the fuel and engine system from premature wear and failure, eliminating unscheduled downtime.



Reduces Fuel Consumption

Burning cleaner fuel increases the thermal efficiency of your engine, thus reducing fuel consumption.



Reduces Unplanned Maintenance

Burning cleaner fuel avoids unplanned service maintenance and ensures that the OEM service schedule is observed.



Reduces Component Replacements

Burning cleaner fuel ensures the life expectancy of fuel injectors, fuel pumps and fuel filters meet manufacturer specifications.



Reduces Harmful Emissions

Burning cleaner fuel maintains factory-level emissions standards throughout the lifecycle of your engine.



Reduces Total Cost of Ownership

Burning cleaner fuel reduces the cost of engine maintenance while eliminating fuel-related breakdowns and improving the overall reliability of your diesel engines.

Proven in many industries

Transportation

Burning clean fuel allows diesel-powered vehicles to increase operating uptime, to emit fewer toxic emissions, and to gain more miles per gallon. That means better compliance with Euro 6/Stage V emissions throughout the life of the diesel-powered unit. For those regions with poor infrastructure, FuelActive keeps you working in challenging environments. The net result is a vast reduction in untimely capital expenditure.



Transportation.

Construction

Fuel contamination is a huge cost to the construction industry. Burning clean fuel allows diesel engines to perform at manufacturer-rated performance levels far longer, which means that businesses have certainty in operation, costs and equipment life. All of which adds up to customer satisfaction and increased uptime.



Construction.

Agriculture

Fuel system integrity, filter life and engine life can be degraded significantly by the effects of fuel contamination in farm vehicles. Installing FuelActive can have a positive economic impact on bottom-line operational costs. Agricultural machinery is called upon often to harvest crops within a very tight time frame. Using FuelActive has been proven to increase machine reliability and avoid untimely breakdowns, especially at critical points in the planting and harvest cycle.



Agriculture.

Power generation and pumps

Fuel contamination in the power generation and pumps market is a cause of great cost and inefficiency. Burning clean fuel allows maintenance schedules to conform to manufacturer recommendations, which means the generator runs much longer and servicing costs from accelerated replacement of filters and injectors are minimised. The assurance of FuelActive is even more important when the unit is providing prime power and avoiding unnecessary downtime is vital.



Power Generation.

Military

When essential operating equipment breaks down during military operations, it can have catastrophic and even fatal consequences. As 80 percent of breakdowns in diesel-powered engines are caused by fuel contamination, using FuelActive will add a new level of reliability to military operations. When military assets are protected from the ravages of diesel contamination, they are ready to deploy anywhere in the world and operate in austere, remote environments.



Military.

Marine

Engine failure as a result of water is a detrimental consequence of fuel contamination. A marine craft suffering fuel contamination during operations in restricted waters or heavy seas can have catastrophic consequences for the boat and crew alike. In short, you simply cannot afford to have a breakdown at sea. Due to the high importance of contamination control in the marine sector, the FuelActive fuel pick-up unit is considered a critically important component for marine vessels.



Marine.

Mining

With mines often in extremely remote locations, machine downtime can mean extremely high operating costs for today's mining companies. Eliminating downtime saves time, effort and financial resources while increasing overall mine productivity through equipment reliability.



Mining.

FuelActive – FA06

FuelActive Solution

By supplying the fuel lines with the highest quality fuel available, FuelActive protects the fuel system and significantly reduces problems associated with contaminated fuel. Most contamination is water borne and is approximately 15% heavier than diesel, sinking to the bottom of the fuel tank as a result. By drawing fuel from the upper level of fuel, the FuelActive unit avoids the settled contamination at the bottom of the tank. The FA06 unit is suitable for use in products ranging from a 6kVA generator to a 20-tonne excavator.



Parameters	Description
Fuel Flow/Engine power	240 l/hr (<150kW/201hp)
Operational Temperature	-30°C to +50°C
Warranty	Period
FuelActive Unit	5 years
Components	Material
Topplate	Stainless Steel 304
Baffle	Stainless Steel 304
Dynamic Float FA06	Plastic Hydrocarbon Resistant
Flexible Fuel line FA06	Plastic Hydrocarbon Resistant
Gasket	BS Nitrile
Gasket	Klingersil

TECHNICAL SPECIFICATION



FuelActive FA06: <150kW (201hp)*		
FuelActive Unit	Unit Height (mm)	Weight (kg)
FA06H200	200	1.09
FA06H225	225	1.12
FA06H250	250	1.15
FA06H275	275	1.18
FA06H300	300	1.22
FA06H325	325	1.31
FA06H350	350	1.34
FA06H375	375	1.38
FA06H400	400	1.41
FA06H425	425	1.44
FA06H450	450	1.48
FA06H475	475	1.51
FA06H500	500	1.54
FA06H550	550	1.67
FA06H600	600	1.73
FA06H650	650	1.80

Flow rate / hour		Pressure drop (bar)	
US Gal	Litre	300mm	800mm
8	30	0.02	0.03
16	60	0.05	0.09
24	90	0.08	0.17
32	120	0.13	0.27
40	150	0.18	0.38
47	180	0.25	0.50
55	210	0.32	0.63
63	240	0.63	0.77

1 US Gallon = 3.79 litres

All tests are conducted to the standard FuelActive testing procedure. For further details, please contact the FuelActive Engineering Team.

*When selecting the correct size FuelActive unit, please measure the fuel tank height and check the engine fuel flow requirements

FuelActive – FA10

FuelActive Solution

Suitable for use in road haulage and large construction machinery, for example 20-tonne plus excavators. By supplying the fuel lines with the highest quality fuel available, FuelActive protects the fuel system and significantly reduces problems associated with contaminated fuel. Most contamination is water borne and is approximately 15% heavier than diesel, sinking to the bottom of the fuel tank as a result. By drawing fuel from the upper level of fuel, the FuelActive unit avoids the settled contamination at the bottom of the tank.



Parameters	Description
Fuel Flow/Engine power	330 l/hr 151-450kW (450kW/603hp)*
Operational Temperature	-30°C to +50°C
Warranty	Period
FuelActive Unit	5 years
Components	Material
Toplate	Stainless Steel 304
Baffle	Stainless Steel 304
Dynamic Float FA06	Plastic Hydrocarbon Resistant
Flexible Fuel line FA06	Plastic Hydrocarbon Resistant
Gasket	BS Nitrile
Gasket	Klingsil

FuelActive FA10: 151-450kW (201-603hp)*		
FuelActive Unit	Unit Height (mm)	Weight (kg)
FA10B12H350	350	3.25
FA10B12H400	400	3.40
FA10B12H475	475	3.53
FA10B12H550	550	3.83
FA10B12H625	625	4.02
FA10B12H700	700	4.12
FA10B12H775	775	4.48
FA10B12H850	850	4.61
FA10B12H900	900	4.73

Flow rate / hour		Pressure drop (bar)	
US Gal	Litre	400mm	500mm
32	120	0.02	0.05
40	150	0.03	0.07
47	180	0.04	0.09
55	210	0.05	0.11
63	240	0.06	0.13
71	180	0.07	0.16
79	210	0.08	0.18
87	240	0.09	0.21

1 US Gallon = 3.79 litres

*kW & hp are approximate and will depend on engine specification

*When selecting the correct size FuelActive unit, please measure the fuel tank height and check the engine fuel flow requirements

All tests are conducted to the standard FuelActive testing procedure. For further details, please contact the FuelActive Engineering Team.

Specification FA16

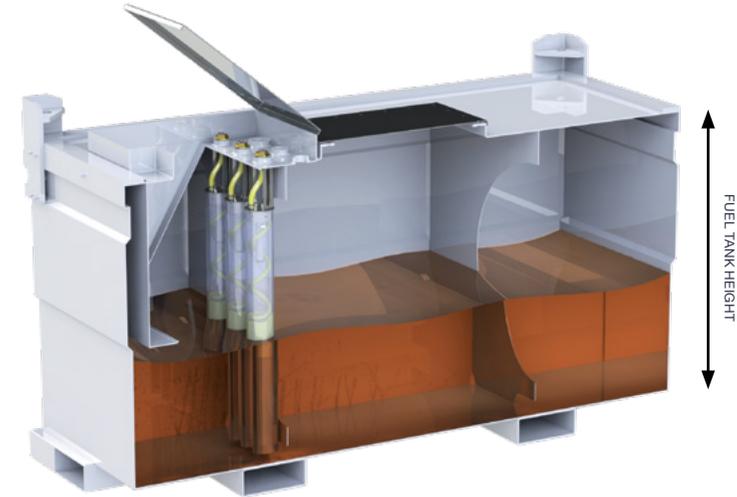
FuelActive Solution

For use with very large engines, for example, pump sets, as well as crushers and screeners. By supplying the fuel lines with the highest quality fuel available, FuelActive protects the fuel system and significantly reduces problems associated with contaminated fuel. Most contamination is water borne and is approximately 15% heavier than diesel, sinking to the bottom of the fuel tank as a result. By drawing fuel from the upper level of fuel, the FuelActive unit avoids the settled contamination at the bottom of the tank.



Parameters	Description
Fuel Flow/Engine power	1350 l/hr (>450kW/604hp)
Operational Temperature	-30°C to +50°C
Warranty	Period
FuelActive Unit	5 years
Components	Material
Toplate	Stainless Steel 304
Baffle	Stainless Steel 304
Dynamic Float FA06	Plastic Hydrocarbon Resistant
Flexible Fuel line FA06	Plastic Hydrocarbon Resistant
Gasket	BS Nitrile
Gasket	Klingsil

TECHNICAL SPECIFICATION



FuelActive FA06: >451kW (604hp)*		
FuelActive Unit	Unit Height (mm)	Weight (kg)
FA016B34H900	900	6.00

*kW & hp are approximate and will depend on engine specification.

Other unit heights are available to order. Please contact FuelActive for a quotation.

*When selecting the correct size FuelActive unit, please measure the fuel tank height and check the engine fuel flow requirements

*Indicative figure, actual PD will depend on the design

1 US Gallon = 3.79 litres

All tests are conducted to the standard FuelActive testing procedure. For further details, please contact the FuelActive Engineering Team.

Flow rate / hour		Pressure drop (bar)	
US Gal	Litre	900mm	HHPx3*
79	300	0.02	0.00
129	450	0.04	0.00
158	600	0.06	0.01
198	750	0.09	0.02
237	900	0.12	0.03
277	1050	0.15	0.03
317	1200	0.19	0.04
356	1350	0.24	0.05
528	2000	-	0.11
580	2200	-	0.13
633	2400	-	0.15

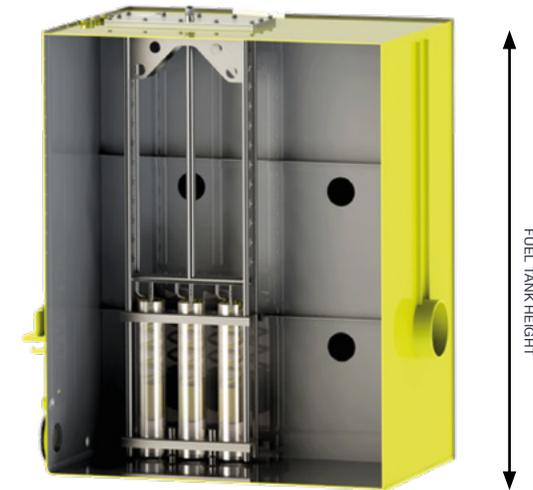
Custom solutions

FuelActive Solution

For use with the largest engines, for example mining trucks, locomotives or power generation. By supplying the fuel lines with the highest quality fuel available, FuelActive protects the fuel system and significantly reduces problems associated with contaminated fuel. Most contamination is water borne and is approximately 15% heavier than diesel, sinking to the bottom of the fuel tank as a result. By drawing fuel from the upper level of fuel, the FuelActive unit avoids the settled contamination at the bottom of the tank.



TECHNICAL SPECIFICATION



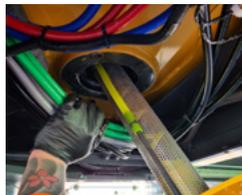
Fuel cube

Suitable for mobile fuel tanks and bowsers
From 50-70l or 100l flow per minute
Triple and quad FuelActive units available depending on the number of ports required



Bulk fuel storage tank

Flow rates of 50-100 litres per minute, plus bespoke solutions



Bottom feed units

Typically for excavators. Often the unit replicates the manufacturer's flange plate.

Accessories

Our range of accessories enables FuelActive to be fitted to a diverse range of tank shapes and sizes

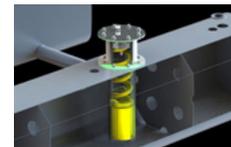


Side entry mount

If access to the top or bottom of the tank is not possible

Extension arm

To all installation into deep tanks in excess of 650mm on FA06 or 900mm on FA10 and FA16



Riser

If tank is too shallow to achieve minimum height for baffle. 200mm for FA06, 350mm for FA10, 650mm for FA16.

Your questions answered

Q Does FuelActive require any maintenance?

A FuelActive has been designed to be 'fit and forget' technology, where parts do not experience wear or require replacement. That means there is no maintenance needed over the lifecycle of the product.

Q Will I ever need to replace FuelActive?

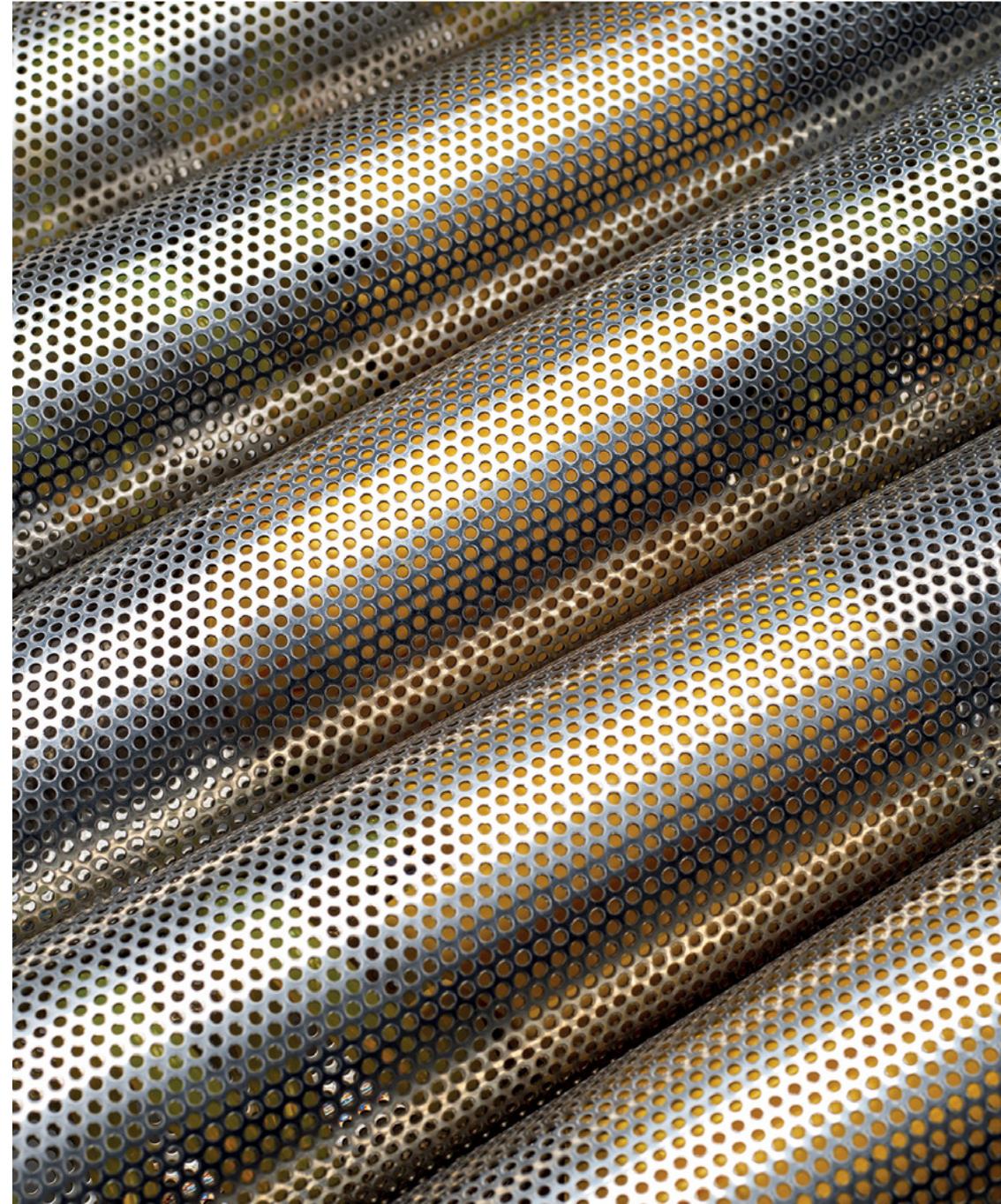
A FuelActive works effectively with all hydrocarbon, biofuels and HVO fuels. It is designed to exceed the life of the equipment. FuelActive comes with a standard five-year warranty.

Q Will FuelActive work at low fuel levels?

A Contamination inhabits the bottom 5 percent of the fuel tank where the standard fuel pickup pipe draws fuel at low pressure before delivering contaminated fuel to the engine. FuelActive continually delivers clean fuel to the injectors even at a low fuel level. The unique flow dynamics created by the float and baffle design supply the cleanest fuel and avoid the contamination residing at the bottom of the fuel tank.

Q Will FuelActive units work in other types of fuel tanks?

A FuelActive can be installed in a wide range of machine fuel tanks, mobile fuel tanks and bowsers, and bulk storage tanks across a diverse range of applications. The company's extensive range of unit types are designed to fit varying tank shapes and dimensions. FuelActive units work equally well in fuel tanks made of steel, aluminium and plastic.



Here to help

Best back-up

FuelActive prides itself on providing industry-leading product support to owners and operators of hydrocarbon-powered equipment and fuel-storage tanks around the world. We analyse the specific needs of our customers, then recommend the ideal solution to each fuel-contamination problem.

Our network of operations and distribution partners, located on virtually every continent, stands ready to support you with highly trained service technicians and an extensive product inventory. So, whether you need a FuelActive installation, same-day product availability, or even engineering services designed specifically for your operating needs, contact FuelActive for real peace of mind.

Free demonstrations

We're always delighted when a potential customer sees first-hand how well a FuelActive unit prevents harmful contaminants from blocking fuel filters or damaging injectors. Of course, the worst possible outcome is catastrophic engine failure, which is tremendously costly in terms of time, effort and money. That's why we offer in-person product demonstrations of a working FuelActive unit from our service vehicle right onsite.

To save time, you can elect to watch a live-stream demonstration of a FuelActive unit in operation direct from our Technology Centre based at our global headquarters.

Interested? Contact us today to book a demonstration.



Caption here about back-up.



Caption here about demos.

Trusted by the biggest names

Sogefi Filtration Ltd.

“Independent laboratory testing of the FuelActive fuel pick-up unit showed that the water/diesel separation efficiency of the FuelActive system exceeded 94 percent, compared with 2.3 percent for the conventional system. The FuelActive fuel pick-up unit delivered fuel that was 92 percent cleaner than the conventional fuel pick-up system.”

Sogefi Filtration Independent Testing

Groundhog

“FuelActive has proven to be totally effective in eliminating fuel filter blockages and engine failure due to fuel contamination, which has lowered company warranty costs. Groundhog have suffered zero fuel-contamination problems since installing FuelActive. In fact, we have amassed 12 million hours over five years without fuel issues.”

Dennis Hughes, MD

Komatsu

“There was a particular fuel-quality issue in one mine in South America. Filters had to be changed after operating less than 200 hours. After installing the FuelActive fitted test unit at the same mine, the filters lasted more than 1,800 hours.”

Steve Woods, VP Product Support

“For Komatsu Chile and our clients, installing FuelActive fuel pick-up units has proven to be an effective way of combating the global issue of fuel contamination in diesel-powered machinery.”

**Jeffrey Dawes, President & CEO
Komatsu Cummins**

Atlas Copco Specialist Rental

“Our filter run hours increased to 1,000 hours in some cases compared to 100 hours prior to installing FuelActive.”

**Keith Jackson, Service & Maintenance
Atlas Copco, UK**

“Using FuelActive is adding value to our machines, especially due to no injection failures.”

**Raj Kumar, Service Manager Rental Division
Atlas Copco, Middle East**

“Installing FuelActive has eradicated fuel-contamination failures and saved tens of thousands of dollars in repair and maintenance. We recommend both retro-fit and factory-fit going forward.”

**Paul Edmonds, Regional and Fleet Operations Manager
Atlas Copco, South East Asia**

KOMATSU

Atlas Copco

FINNING CAT

DAF

TEREX

**DXB
PUMP & POWER**



CONTAMINATION ELIMINATION



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