

mobiclean[®] R

Particulate Filter System for Diesel Engines

20-950 hp

hugfiltersystems.



Leading Environmental Technology for Diesel Engines for Mobile Applications

Full Flow Diesel Particulate Systems against Smoke

Only Full Flow Diesel Particulate Systems are an effective tool against smoke. Our mobiclean R systems retain particles of the exceptionally dangerous zone of 20 - 300 nanometres.

Proven Technology

mobiclean R Filter Systems are based on a ceramic honeycomb structure made of silicon carbide (SiC). The exhaust gasses flow through the porous walls between the channels that are blocked at alternate ends. During this process more than 99% of particles of all sizes will be deposited in the walls.

mobiclean R Filter Systems are particularly suited for commercial and municipal vehicles, construction machinery, vehicles and equipment for the agricultural and forestry industry, mobile homes as well as stationary applications from 15-650 kW.

Highly Effective

With mobiclean the emitted particles are almost completely removed. The VERT-Certificate is proof of our filter's long term effectiveness. Depending on the speci-



fication of the Filter System, hydrocarbon (HC) and carbon monoxide (CO) will also be effectively eliminated.

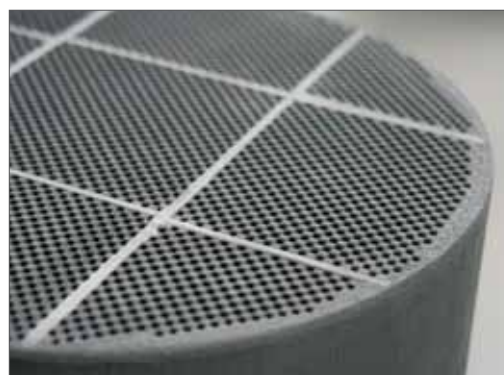
As a result of this a diesel engine will produce more favourable emissions than a comparable gas engine.

With a mobiclean R Filter System the operator can be assured to have chosen the best available technology.

The appropriate regeneration technology for each engine

In order to burn off the collected soot, all our filters are equipped with catalytic coating. This allows regeneration to start at 280°C.

mobiclean Filter Systems are available with various diffe-



Particulate Filter Systems Made in Switzerland with Outstanding Emission Results



rent active and passive regeneration devices:

- **mobileclean basic**
- **mobileclean advanced**
- **mobileclean electro**
- **mobileclean flame**

Thanks to our unique catalytic coating, the systems mobileclean basic, mobileclean electro and mobileclean flame can cope with a fuel sulphur content of up to 5000 ppm. Due to the oxidation catalyst with our mobileclean advanced system the maximum sulphur content is limited to 50 ppm.

Economical and Dependable

mobileclean Filter Systems perform also dependably under extreme conditions. Maintenance is minimal and overhead cost low.

All-Purpose Filters

mobileclean Filter Systems are available in 10 different, standardised sizes and cover a range of 15-650 kW.

Of course we can tailor our systems to customer's requirements to almost any size or shape, even for small series.

Swiss Quality

All components of our mobileclean Filter Systems are developed and manufactured to the highest quality standards at our factory in Switzerland. While we only use extremely high-temperature-resistant stainless steel for the housings, the honeycombs are made of finest silicon carbide.

We are one of the very few manufacturers worldwide, to offer all components made in-house. So you as a customer can always rest assured to use bespoke, finely tuned components with best Swiss quality.

Hug Filtersystems

Hug Filtersystems AG based in Winterthur/Switzerland is the leading manufacturer of exhaust abatement systems for engines. Hug Filtersystems AG is part of the Hug-Group, whose Exhaust Aftertreatment Systems are successfully used worldwide.

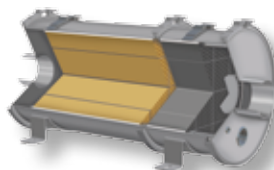


mobiclean R Diesel Particulate Filter Systems for Diesel Engines



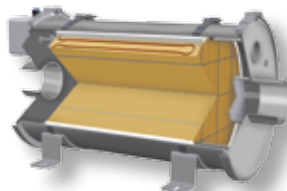
mobiclean R basic

Low cost passive Diesel Particulate Filter System with continuous regeneration already starting at 280°C. Catalytic soot regeneration without NO₂. Maximum 5'000 ppm sulphur. From 15 to 650 kW power output.



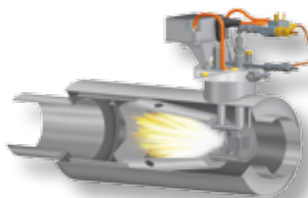
mobiclean R advanced

Passive Diesel Particulate Filter System with continuous regeneration already starting at 170°C. Catalytic soot regeneration. Maximum 50 ppm sulphur. Reduces CO and HC at the same time. From 15 to 650 kW power output.



mobiclean R electro

Active Diesel Particulate Filter System with electric regeneration when engine is not running. Catalytic soot regeneration without NO₂. Maximum 5'000 ppm sulphur. From 15 to 350 kW power output.



mobiclean R flame

Diesel burner for active regeneration during idle speed. No increase of NO₂. From 40 to 650 kW power output.

- Modules for NO_x reduction available
- Maintenance up to 120'000 mls
- Compatible with EGR engines
- Regeneration temperature over 200°C is needed only 15% of time