

We care for air.

Diesel Particulate Filter with  
Active Diesel Burner Technology



[WWW.HUSSGROUP.COM](http://WWW.HUSSGROUP.COM)

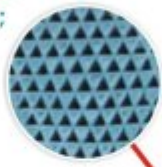


# HUSS MK-SYSTEM FUNCTION PRINCIPLE

99.9%  
SOOT FILTRATION RATE

## LPS-SiC Material

Especially designed for heavy-duty and off-road applications; Long lifetime



## Easy Integration

Modular designed (A, B and C)



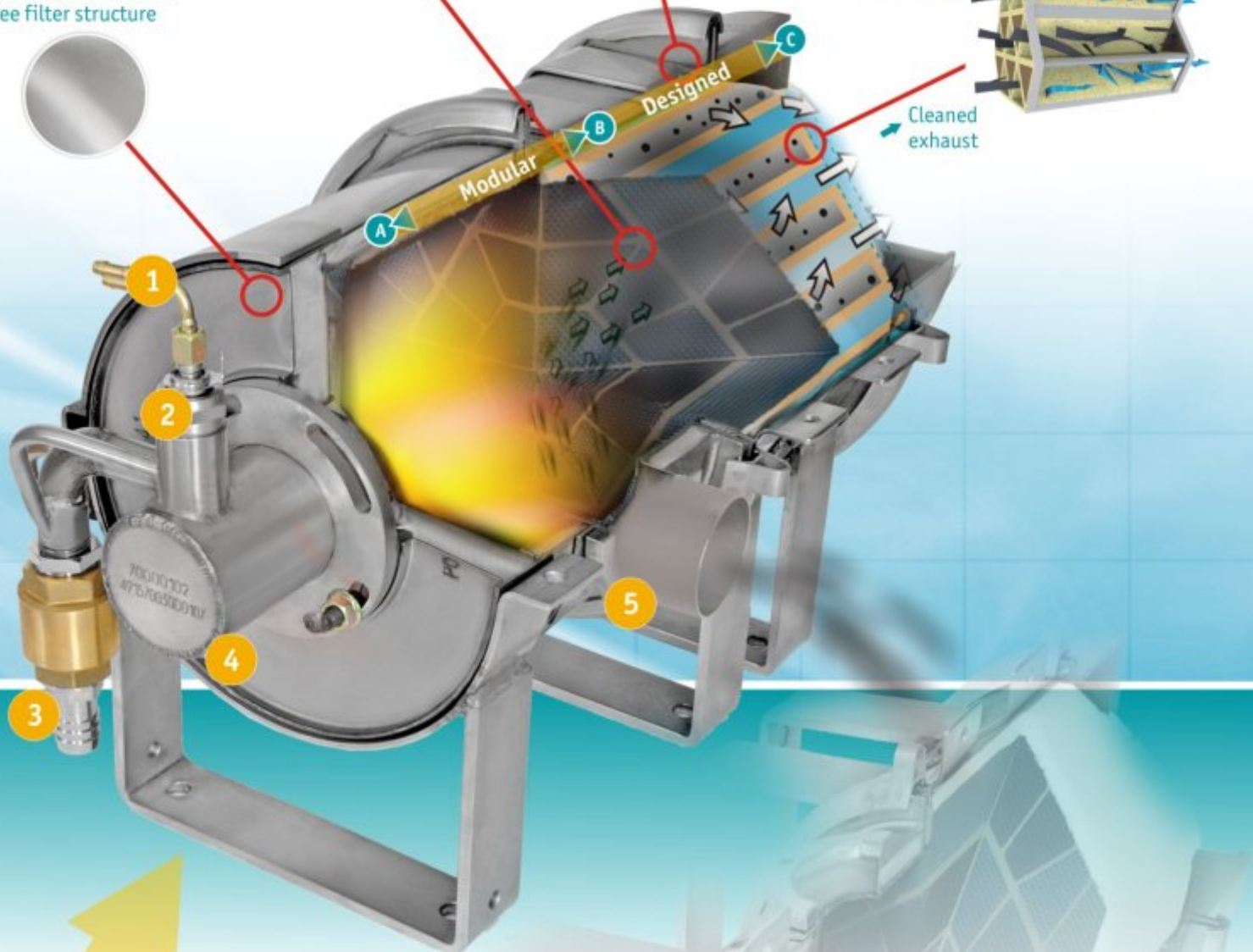
## Stainless Steel

Robust and corrosion free filter structure



## Wall-flow technique

High performance; 99.9% soot collection



- 1 Fuel supply
- 2 Glow plug
- 3 Air supply
- 4 Temperature control
- 5 Exhaust backpressure

## HUSS MK-SYSTEM ADVANTAGES

Independent from exhaust  
gas temperature



Ideal for engines with low or  
unsteady temperatures

Independent from external  
power supply



No connection to the main supply;  
No exchange of filter cartridges

HUSS Control unit supervises  
the entire process



Visual and acoustic process  
monitoring

Noise regulations  
are fulfilled



Additional muffler  
module can be integrated

Different exhaust  
gas outlets



Easy integration to every  
mounting situation

Variety up to  
600 kW (800 hp)



Most suitable filter size  
for each engine

Low fuel  
consumption



Low follow-up costs caused  
by the filter system

Secondary emissions  
regulations fulfilled



No secondary emissions  
related to regeneration



### System Overview

The MK-System is integrated into the exhaust line of the vehicle. The high-tech LPS-SiC ceramic filters 99.9% of the harmful soot particles out of the exhaust gases. The active regeneration is executed by a powerful diesel burner, which works independent from the exhaust gas temperature. Depending on the filter size the regeneration takes between 5 and 45 minutes. The entire process is supervised by the HUSS control unit.

# FOR EVERY APPLICATION A SOLUTION THAT FITS

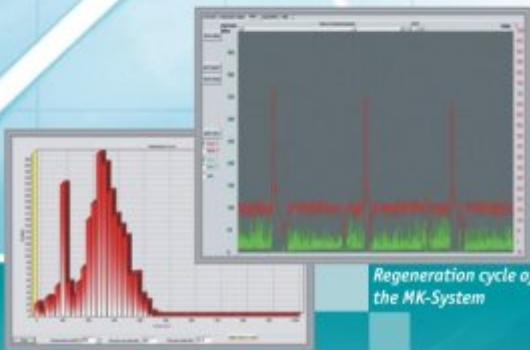
Type of filter	MK35	MK75	MK150	MK200	MK300	MK400	MK600
Engine power in kW (hp) up to	0-35 (45)	-75 (100)	-150 (200)	-200 (270)	-300 (400)	-400 (540)	-600 (800)
PM collection rate	99.9 %						
Secondary emissions	No secondary emissions related to regeneration						
Filter material	Liquid-phased sintered Silicon Carbide (LPS-SiC)						
Exhaust gas temperature	No minimum level required						
Control unit	HUSS Control, DataLogger integrated						
On board voltage	12 V or 24 V						
Installation position	Horizontally or vertically						
Regeneration technique	Diesel burner technology						
Operation hours until regeneration	App. 8-10 operating hours						
Regeneration time	App. 5-45 min. depending on filter size						
Filter casing	Stainless steel						

The sizing of a filter depends basically on the engine performance, the emissions, the volume flow rate, the age and condition of the vehicle. Therefore the values in the table can be considered as approximated values. In reality, the reasonable filter size can differ therefrom.

For further information about the correct solution for your specific engine check our **Product Finder** tool at [www.hussgroup.com](http://www.hussgroup.com)

## HUSS CONTROL OVERVIEW

The MK-System is independent from exhaust temperature and from engine management. The basis for the monitoring of the entire process of filtration and regeneration is the extraordinary and sophisticated HUSS control unit. 25 years of market experience is considered in this electronic and is reflected by its variety of functions. It is evident that the often requested datalogger is also integrated.



Ideal for low or unsteady exhaust gas temperatures



### Bluetooth Technology

Wireless programming and readout of the steering device



### Smart Integration

Simplified installation - only the display is fixed to the cockpit



### Backpressure settings

Possibility of different settings according to the application needs



### Data logger function

Data management software keeps track of the filter system operation



### Safety Concept

Overloading of the filter prevented by security measures



### Stop-and-Start Function

Automatic regeneration start possible



### Multiple X Function

One device for multiple pass filter systems



### Language selection

Different languages supported

# HUSS advantages



## QUALITY

### ■ Experience and Know-how

HUSS products are successfully established in the market for more than 25 years

### ■ 99.9% PM reduction

99.9% soot collection due to LPS-SiC wall-flow filtering

### ■ Premium Materials

Stainless steel and Silicon Carbide grant long lifetime

### ■ Certifications

VERT, CARB, TRGS 554, exhibit XXVII StVZO and other standards. Quality management according to DIN ISO 9001:2000

### ■ Warranty Extension

Customer satisfaction assured by long term warranty

## TECHNOLOGY

### ■ Technology

Continuous development leads to innovative products

### ■ System Solutions

Particulate filters up to 600 kW (800 hp) and regeneration strategies for every application

### ■ Modular Design

Fits even in problematic locations

### ■ HUSS Competence in Ceramic Production

Own production of LPS-SiC ceramic filters, especially developed for off-road and heavy-duty applications

### ■ HUSS Competence in Metalworking

Own production of mufflers and pipings; Canning Technique

## SERVICE

### ■ Engineering

Engineering expertise in filter adaptation

### ■ Field Service

Installation, maintenance and reparation by own service technicians

### ■ Professional Sales Assistance

Products and information at first hand, directly from the manufacturer

### ■ International Presence

HUSS is represented in Europe and North America by own entities; Authorised partners are internationally located

### ■ Trainings

Special training courses on all filter systems by HUSS specialists

Trucks and commercial vehicles

Transit and school buses

Construction machines

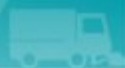
Forklift trucks

Ships and rail

Stationary engines

Special applications

## FIELDS OF EXCELLENCE



# Professional at its best

## The entire range of solutions:

The HUSS Group companies produce high-tech and high-quality solutions for the exhaust aftertreatment of diesel engines, with focus on both, first- and retrofit, of heavy-duty and off-road applications.

CleanDieselCeramics, a producer of LPS-SiC ceramic for particulate traps and Metpela, the specialist for noise reduction and metalworking, stand for the production facilities of the HUSS Group.

Retrofit solutions are represented by HUSS in Germany, Switzerland and North America as own entities. Authorized partners are located internationally to serve customers' needs.

HUSS Technologies is the ideal partner of engine and vehicle manufacturers for customized system development and integration.

Complete solutions of emission reduction under one roof:

**HUSS - We care for air.**



We care for air.



**HUSS LLC**

Sales and service  
North America

**HUSS Umweltechnik GmbH**

Retrofit sales for Europe  
and other export markets  
After sales service

**HUSS Technologies GmbH**

OEM Sales;  
System development  
& Integration

**HUSS Umweltechnik AG**

Sales and service for  
Switzerland, France  
and Italy

**CleanDieselCeramics GmbH**

Development and  
production of LPS-SiC  
diesel particulate  
filters

**Metpela Oy**

Development and  
production of mufflers  
and pipings; Canning  
technique

[WWW.HUSSGROUP.COM](http://WWW.HUSSGROUP.COM)