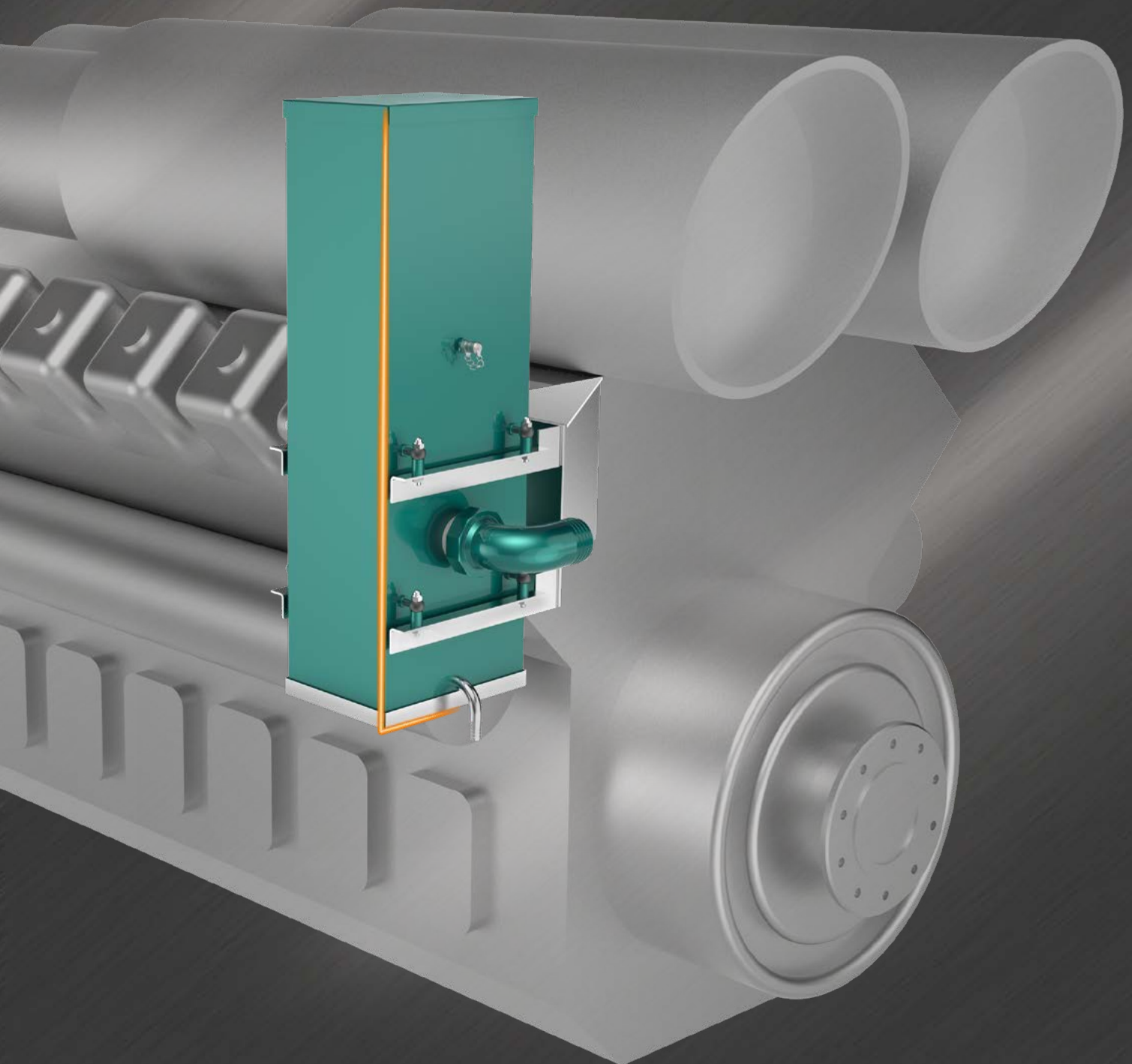


# OIL MIST SEPARATION

Crankcase Ventilation reinvented



# CRANKCASE VENTILATION

Blow-by gases always occur in the crankcase of combustion engines. The high lubricating oil content of this gas and a permanent increase in pressure in the crankcase and the attachments lead to increased stress on the components and causes subsequent damage to the engine. In a worst-case scenario, special circumstances may lead to an ignition of the oily blow-by gas and can further cause an explosion of the engine.

These negative effects can only be prevented in the long-term with an efficient ventilation of the crankcase gases.

Therefore two basic versions can be distinguished, whereby oil mist separators of HEINZMANN IFT are equally suitable.

## CCV

### Closed Crankcase Ventilation



- Cleaned gas is recirculated into engine
- Separated oil is reused
- No additional power source is needed

## OCV

### Open Crankcase Ventilation



- Cleaned gas is released into atmosphere
- Separated oil is reused
- External power source is needed

# BENEFITS OF HEINZMANN IFT OIL MIST SEPARATORS



## Green technology

In order to protect people and the environment, emissions and pollutants must be reduced.

The outstanding product lifetime, highest separation efficiency as well as the minimization of waste allow to keep within the legally described thresholds.



## Open design

Due to the huge amount of existing engine models, an optimal integration of oil mist separators needs to be ensured.

HEINZMANN IFT product designs meet the customers needs in the best way possible by further targeting competitive low prices.



## Long lasting

HEINZMANN IFT products are manufactured according to European quality standards with highest quality materials and special sealing that withstands even the toughest conditions.

All products enable multiple years of maintenance-free lifetime and high operational safety.



## Condition monitoring of the engine

The patented HEINZMANN IFT depth filtration technology makes it easy, efficient and cost-effective to identify signs of wear on the engine at an early stage without additional devices.



## Long product availability

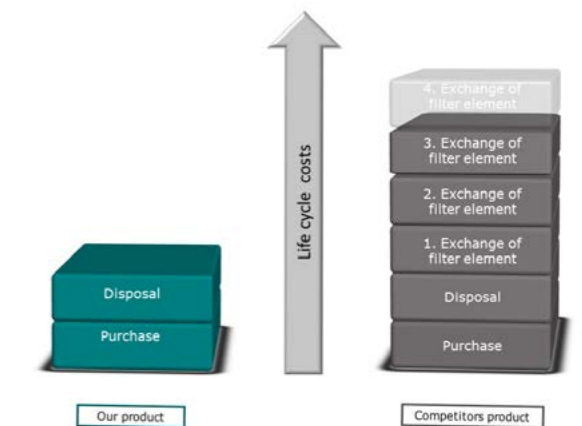
Product designs are kept in our portfolio for a long time and are permanently updated according the state of the art.



## Cost saving

Due to the outstanding characteristics of the HEINZMANN IFT technology, savings in life cycle costs are achieved.

Highly reduced maintenance effort, longest product lifetime, high return of oil and elimination of filter inserts enable this benefit.



## Robust

HEINZMANN IFT filters require no additional monitoring and are characterised by no maintenance effort after installation. This leads to a minimised risk of incorrect product operation.

Further the high-quality housing as well as the filter media can compensate various kinds of maloperation.

## OUR RANGE OF SERVICE

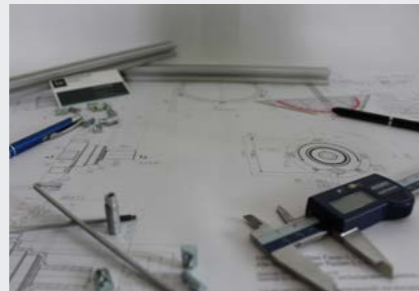
### UNIVERSAL SOLUTIONS



The new HEINZMANN IFT universal oil mist separator models (UNI S/M/L) can be used over a wide power range, regardless of the specific engine model. Only 3 filter models can cover at least power ranges from 500 up to 3,500 kW. By combining these models, the performance range can be expanded widely.

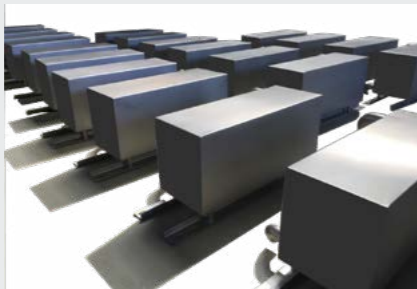
For individual applications or special areas of application, HEINZMANN IFT offers the possibility of designing individual solutions.

Here, the requirements and wishes of the customer can be specifically addressed.



### INDIVIDUAL SOLUTIONS

### EXCHANGE AND SERIES SOLUTIONS



HEINZMANN IFT offers 1:1 exchange solutions and conversion packages for engines from well known manufacturers. Due to series production, the most common models can be delivered quickly and are constantly being adapted to current engine requirements.

HEINZMANN IFT also develops entire systems with pressure control units, blowers and piping to cover our customers specific needs.



### COMPLETE SYSTEMS (OCV & CCV)

## FAQ

### How are HEINZMANN IFT oil mist separators maintained?

HEINZMANN IFT oil mist separators are maintenance-free throughout their complete product lifespan.

This means that no servicing or changing of the filter materials is required from the installation of the oil mist separator until the end of its product lifetime. The maintenance effort of the engine parts after the oil mist separator is also reduced.

### What effort is to be expected when converting an existing system to an HEINZMANN IFT oil mist separator system?

The use of the universal models of the HEINZMANN IFT oil mist separator offers the possibility of a quick and uncomplicated redesign of the crankcase ventilation.

Versatile pipe connections and various mounting options as well as high availability of the universal oil mist separator models enable projects to be implemented within a few days to weeks.

### How do HEINZMANN IFT oil mist separators differ from competitor products?

HEINZMANN IFT oil mist separators operate in accordance with the patented parallel flow depth filtration process. This enables the highest level of separation with consistent differential pressure throughout the entire duration of use. HEINZMANN IFT products have a maintenance-free service life of many years whereas competitor products have to be changed after just a few 1,000 operating hours.

In summary, a filter from HEINZMANN IFT will save you time and money.

### Why should I switch to a separator system from HEINZMANN IFT?

The patented technology from HEINZMANN IFT ensures a reduction or even elimination of ongoing maintenance costs of the engine and of the oil mist separator and offers many years of operational reliability. The changeover thus pays for itself within a short period of time.

### Can the HEINZMANN IFT oil mist separator increase the lifespan of my engine?

A low load on the engine components caused by sufficiently filtered blowby gas results in fewer signs of wear and therefore reduced maintenance expenses.

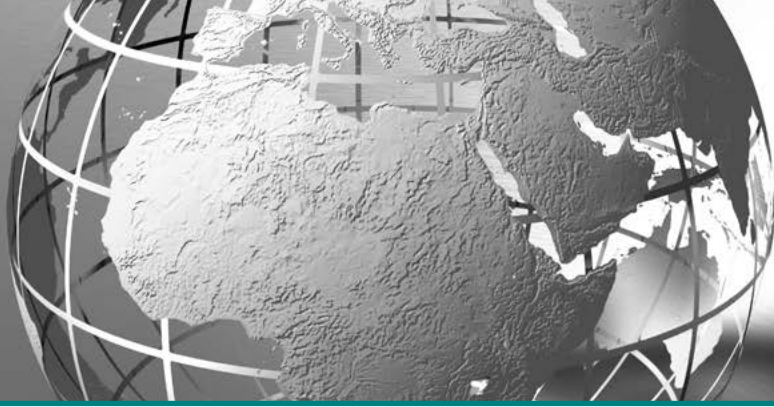
### I cannot find a filter for my engine in the HEINZMANN IFT product portfolio.

HEINZMANN IFT offers the option of having an oil mist separator designed to suit your individual requirements. We provide all the common advantages with these special models and look forward to your challenge!

### What savings can be expected with an HEINZMANN IFT oil mist separator compared to a competitor product?

The economic significance of changing over to or purchasing a HEINZMANN IFT oil mist separator can be presented in two ways:

- The running costs of a standard competitor product are entirely lacking when operating a HEINZMANN IFT oil mist separator, e. g. purchasing of filter exchange elements, engine downtime, work expenses and disposal costs.
- The engine maintenance costs also decrease along with the reduced expenses relating to the purchase and swapping of engine components soiled by oil residues.



## HEINZMANN GROUP – THINKING IN DRIVE AND CONTROL

HEINZMANN is a globally active family business founded in 1897 with its headquarters in Schönau (Germany), in the Black Forest.

Today, in the field of engine management HEINZMANN is one of the leading suppliers of components and systems for industrial combustion engines, generators and turbines. As a specialist and development partner, HEINZMANN is committed to developing exactly the right solution for increasing efficiency and reducing emissions.

In the Electric Drives division, HEINZMANN also demonstrates innovative strength and development expertise in engine technologies of the future. The company has established itself as a reliable partner and system provider for electric drive systems.

Our collaborative interaction with more than 40 globally active subsidiaries and sales companies characterizes the spirit within the HEINZMANN group of companies and makes us a reliable partner.

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