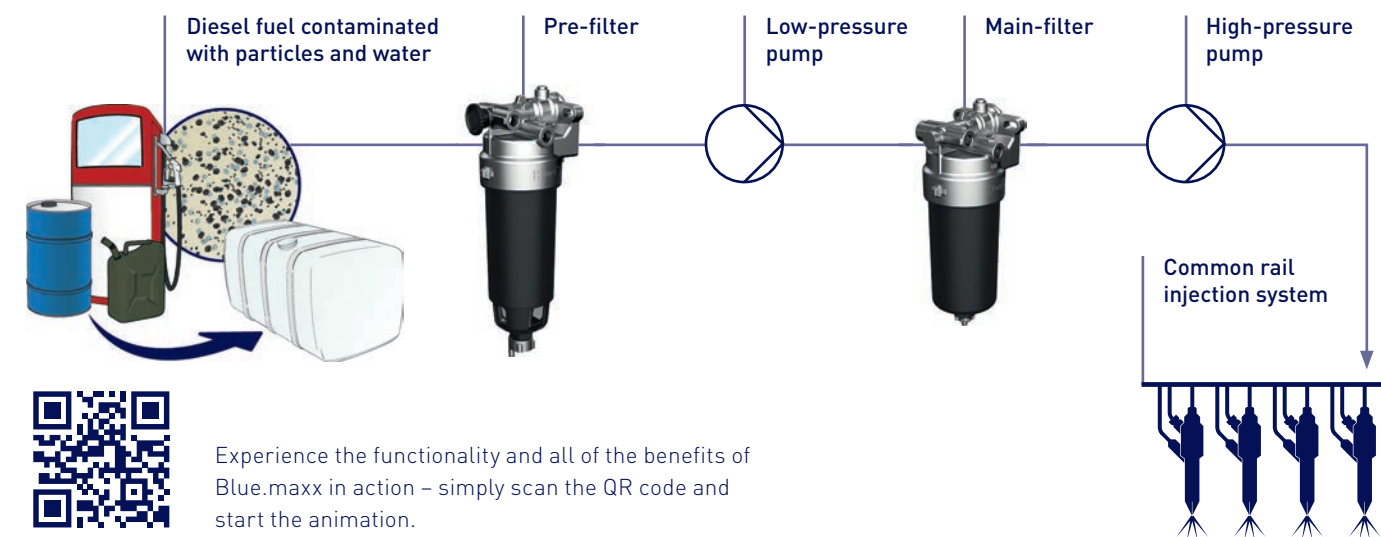


# Clean, clean! Fuel filtration redefined.

Fuel filters are indispensable for protecting the injection system and engine against contamination. This is because the requirements on diesel filtration are continuing to increase. Water and even minute particles should be effectively and reliably removed, despite very different fuel qualities worldwide. The Blue.maxx modular system with the clever combination of a pre-filter and main-filter keeps everything clean. A particular benefit: Both components are available separately. For the highest degrees of separation that impress and which allow for maximum engine performance.



## Your benefits at a glance:

- Installation protection against counterfeit products by means of a patented system
- Prevention of unjustified warranty and goodwill costs
- Environmentally-friendly service
- Quality guarantee by means of a visible filter insert

**Blue·maxx**

**Hengst**  
FILTRATION

## The modular system for the highest level of flexibility.

Whether a complete system or supplementing the system with an additional pre-filter: Optimally designed for any application, you can select the right components.

### Housing - Three diameters are available



### Hand feed pump



### Filter insert Energetic® 200



### Filter insert Energetic® 300



### Filter insert Energetic® 450 + 500



### Heater



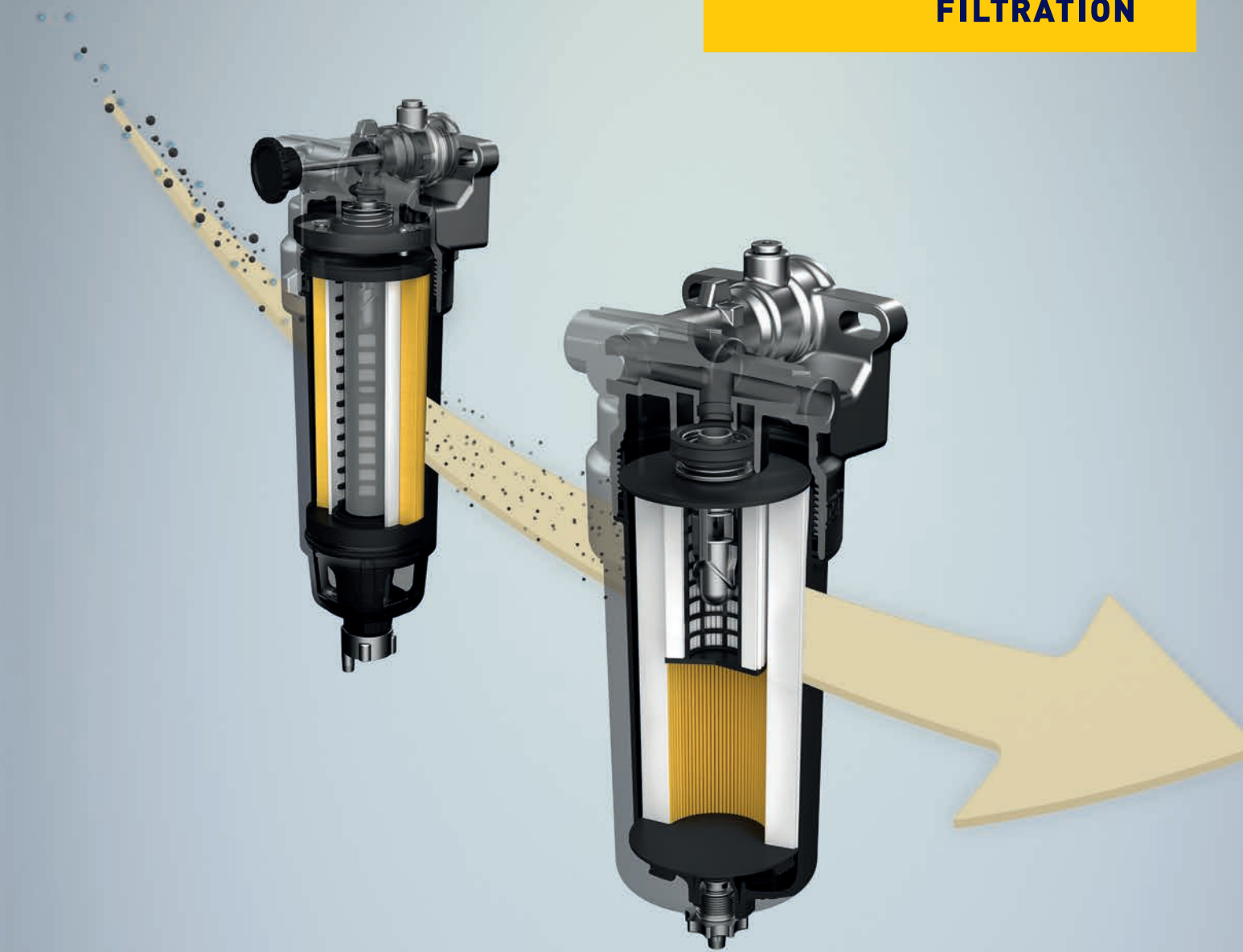
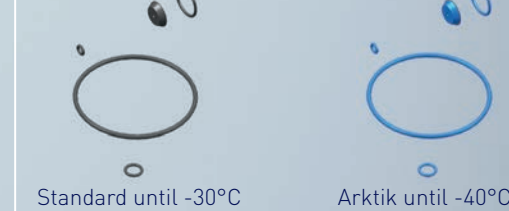
### WiF Sensor



### Screw Cap



### Gaskets



**Work smarter.**

**Blue.maxx – the clever system  
for fuel filtration**

[www.hengst.com/blue.maxx](http://www.hengst.com/blue.maxx)

Do you have additional questions or are looking for the ideal fuel filter for your application? An email to [blue.maxx@hengst.com](mailto:blue.maxx@hengst.com) is all you need – we are happy to get in touch with you!

**Hengst SE & Co. KG**  
Headquarter  
Nienkamp 55-85  
48147 Münster  
Germany

Tel.: +49 251 20202-0  
Fax.: +49 251 20202-170

# Blue.maxx - the intelligent fuel filter concept.

Blue.maxx is setting new standards in fuel filtration. A low weight, due to a consistent lightweight design and the optimization of the installation space unites with maximum performance. The pioneering performance data with respect to dirt and water separation speak for themselves!

The layout of the filter concept at a glance:

- 01 Manual feed pump (optional)
- 02 Bleed screw
- 03 Fuel heater (optional)
- 04 Energetic® filter insert
- 05 Cover with integrated water collection area (window optional)
- 06 Water drainage screw (water fill level sensor optional)

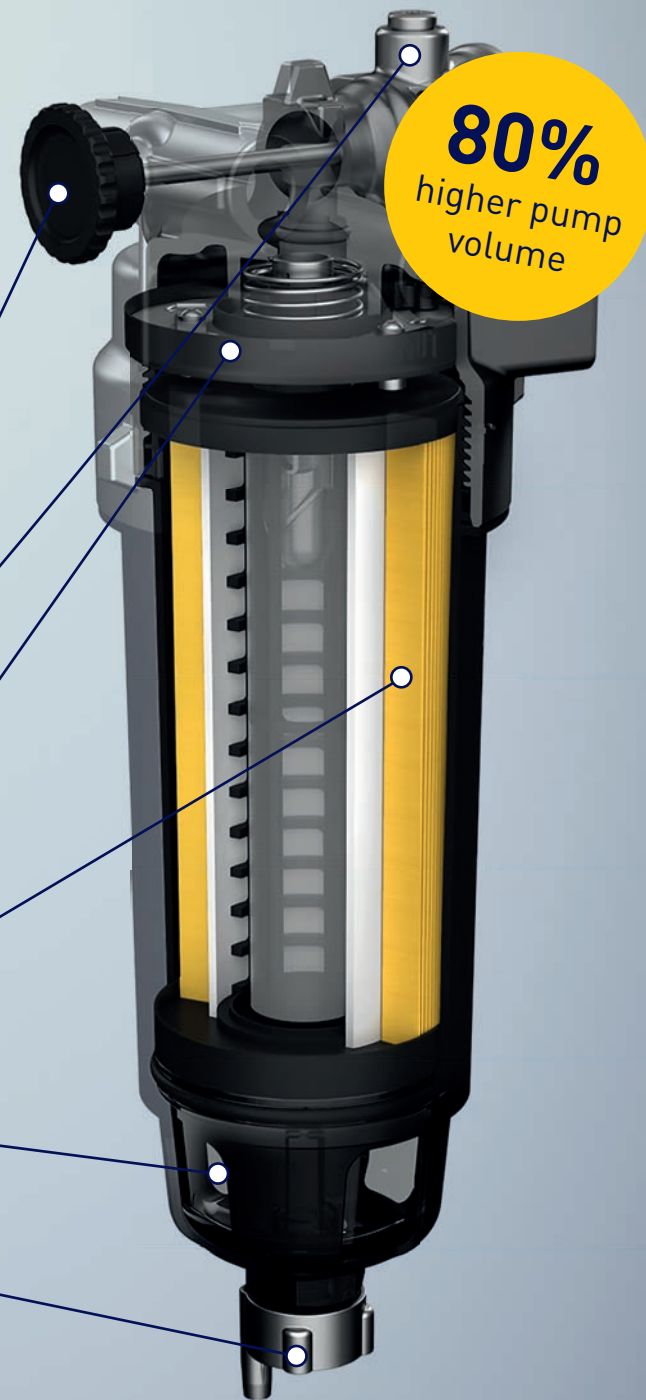


Fig. multi-staged pre-filter

# The technological leader in every respect.

You can rely on it: Technologically leading components make Blue.maxx a powerful and durable fuel filter for all areas of application. **Three good reasons to choose the fuel filtration of the future:**



### Energetic® filter insert

- Optimum quality at all times thanks to the visible fuel insert
- Environmentally-friendly service – only the insert is replaced
- Installation safety avoids incorrect handling and the installation of counterfeit products

### Manual feed pump

- High feed volume at low operating forces
- Maximum functional safety thanks to the piston principle
- Low loss of performance due to the flow-optimized design

### Filter housing

- Intelligent design with integrated water collection area
- Fill level can be checked at any time via the window
- Simple maintenance without special tools

### Functional comparison pre-filter

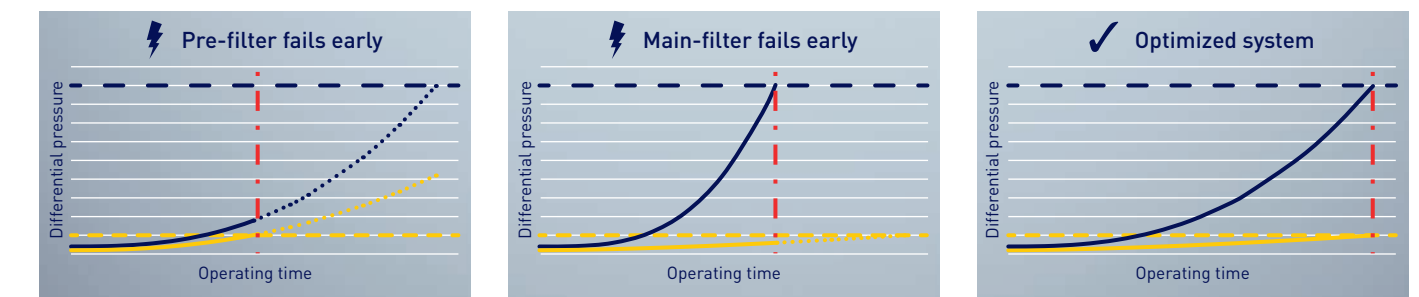
	Hengst Blue.maxx	Competitor 1	Competitor 2
Water separation efficiency ISO / CD 16332	++ (> 99 %)	--	+
Filtration efficiency ISO 19438	++	++	--
Dust holding capacity / lifetime ISO 19438	++	--	++

# Pre-filter and main-filter: A powerful team.

The requirements for fuel purity, not only in modern common rail drives, are constantly increasing. Hengst therefore consistently relies on multi-stage systems consisting of a pre-filter and main-filter. The systems are designed so the replacement intervals of the pre-filter and main-filter are reached at the same time. Thus, the potential of both filters is used optimally. The benefits in comparison to conventionally designed systems speak for themselves: Clear performance benefits with respect to particle filtration, water separation, differential pressure and installation space. **Each filter stage is true precision work, individually adjusted to the application and their respective boundary conditions.**

		Filtration efficiency ISO 19438	Water separation efficiency ISO / CD 16332	Constant water separation throughout a long service life
Pre-filter single stage	Main-filter single stage	> 96 %	> 99 %	-
	Main-filter multi stage	> 99 %	> 99 %	-
Pre-filter multi stage	Main-filter single stage	> 96 %	> 99 %	✓
	Main-filter multi stage	> 99 %	> 99 %	✓

### By optimally calibrating the media stages, the filter potentials are used optimally



— Pre-filter — Main-filter - - - Differential pressure threshold for the pre-filter - - - Differential pressure threshold for the main-filter - - - End of lifetime