

Maximum protection with MANN-FILTER

PreLine – the protective system for diesel injection units



The MANN-FILTER PreLine system

Realising the full power of fuel and engine

Today, diesel vehicles are fitted with the latest high performance fuel injection systems. As a result, fuel filtration must meet far more demanding requirements. PreLine from MANN-FILTER is a universal and practical pre-filter system, based on the spin-on filter concept, which provides an ideal, cost-saving retrofit solution.

Making the engine run efficiently

Ever higher injection pressures are applied in modern engines to enhance fuel economy. The injection systems installed for this purpose demand a very high level of fuel cleanliness: there must be hardly any contaminant particles or water (condensate) in the fuel. To achieve this, MANN+HUMMEL fuel filters utilise highly efficient Multigrade filter media.

The MANN+HUMMEL PreLine achieves over 93% water separation in accordance with ISO/TR 16 332, thus meeting the specification set by leading manufacturers of fuel injection systems.

The perfectly coordinated interaction of the PreLine pre-filter system and the main fuel filter provides maximum protection for the sensitive injection systems and helps the engine to run efficiently.

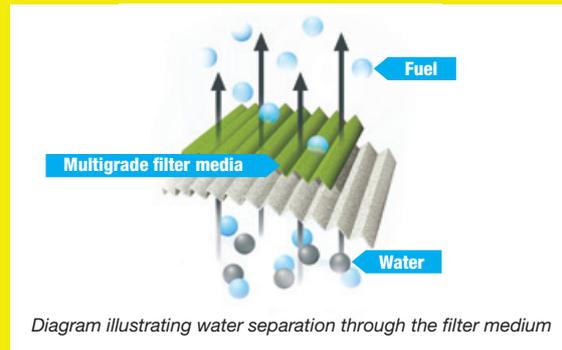


Diagram illustrating water separation through the filter medium

Meeting every requirement

The MANN-FILTER PreLine system provides highly efficient filtration of around 200 l/h to approx. 420 l/h for all diesel engines. Whether it is for the latest common rail injection systems, in-line or distributor injection pumps – PreLine consistently protects against wear and corrosion from contaminant particles and water.

Advantages of the MANN-FILTER PreLine system

- ⊕ Efficient filtration within tight fitment constraints
- ⊕ Easy to use
- ⊕ Powerful 45° hand pump
- ⊕ Extremely stable construction
- ⊕ Water separation ($\geq 93\%$ in accordance with ISO/TR 16 332)
- ⊕ Up to 70% separation of 6 micron (c) particles
- ⊕ 9-32 Volt diesel heater (optional)
- ⊕ ABE and KBA approved

Everything
at a glance

The pre-filter system

Hose connections

M 18 x 1.5 for inlet and outlet

Pump

Manual pump for fast and effective venting of fuel system following filter change

Head-mounted heater (optional)

Lock cap to connect to heater

Hose connection (optional)

M 18 x 1.5 for outlet

Spin-on filter element

Filter element for efficient particle separation. Available in two sizes for a max. 270 l/h and 420 l/h

Water collection area (bowl)

High-quality clear plastic to view separated water easily.

Capacity:

PreLine 270: 0.3 l

PreLine 420: 0.5 l

Water drain plug



Technical details



Systems

MULTIGRADE filter media	Degree of separation to ISO 19 438		Sales description Pre-filter system	
	4 µm (c)	6 µm (c)	PreLine 270	PreLine 420
	≥ 10 %	≥ 30 %		
Nominal flow			Max. 270 l/h	Max. 420 l/h
Application	Pre-filter function with water separation		Suitable for: diesel to DIN EN 590, 100% FAME to EN 14214	
Water separation	To ISO/TR 16 332		> 93 %	
Operating pressure	Filter head and spin-on filter		4 bar	
Filter head (connections)	Inlet: Outlet: Heater:		M18 x 1.5 (left) M18 x 1.5 (left, opt. right) Cover for optional installation	

Spin-on filter element

Filter media for	Degree of separation to ISO 19 438		Sales description Spin-on filter	
	4 µm (c)	6 µm (c)	PreLine 270/7	PreLine 420/7
	≥ 10 %	≥ 30 %		
MULTIGRADE	≥ 10 %	≥ 30 %		
MULTIGRADE	≥ 40 %	≥ 70 %	PreLine 270/1	PreLine 420/1
Nominal flow			Max. 270 l/h	Max. 420 l/h
Application	PL 270/7 PL 420/7		Standard application to maintain balanced ratio between particle separation and service interval	
	PL 270/1 PL 420/1		Higher degree of separation through finer filter media, also improved component protection and longer service interval for the main fuel filter. Therefore shorter service interval for the PreLine filter element.	
Water separation	To ISO/TR 16 332		> 93 %	

Accessories, spare parts

Head-mounted heater DH 32 KIT



DH 32 KIT

Promotes flow through the filter system under cold start conditions.

Voltage range: 9 – 32 Volt

Heating capacity: 12 Volt, 190 W, 14 A
24 Volt, 193 W, 7 A

Technology: PTC heating element

Control: Temperature-dependent
on and off through bi-metal
switch

Certification: ABE and KBA approved

Supplied with: 5 metre cable and HDSCS
plug-in connection, fastening
screws, also installation and
maintenance instructions

Water collection area (bowl) BL 1



BL 1

Bowl service kit with clear plastic
bowl, radial seal, water drain plug
and assembly tool LS 7/4.



MANN+HUMMEL GMBH

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