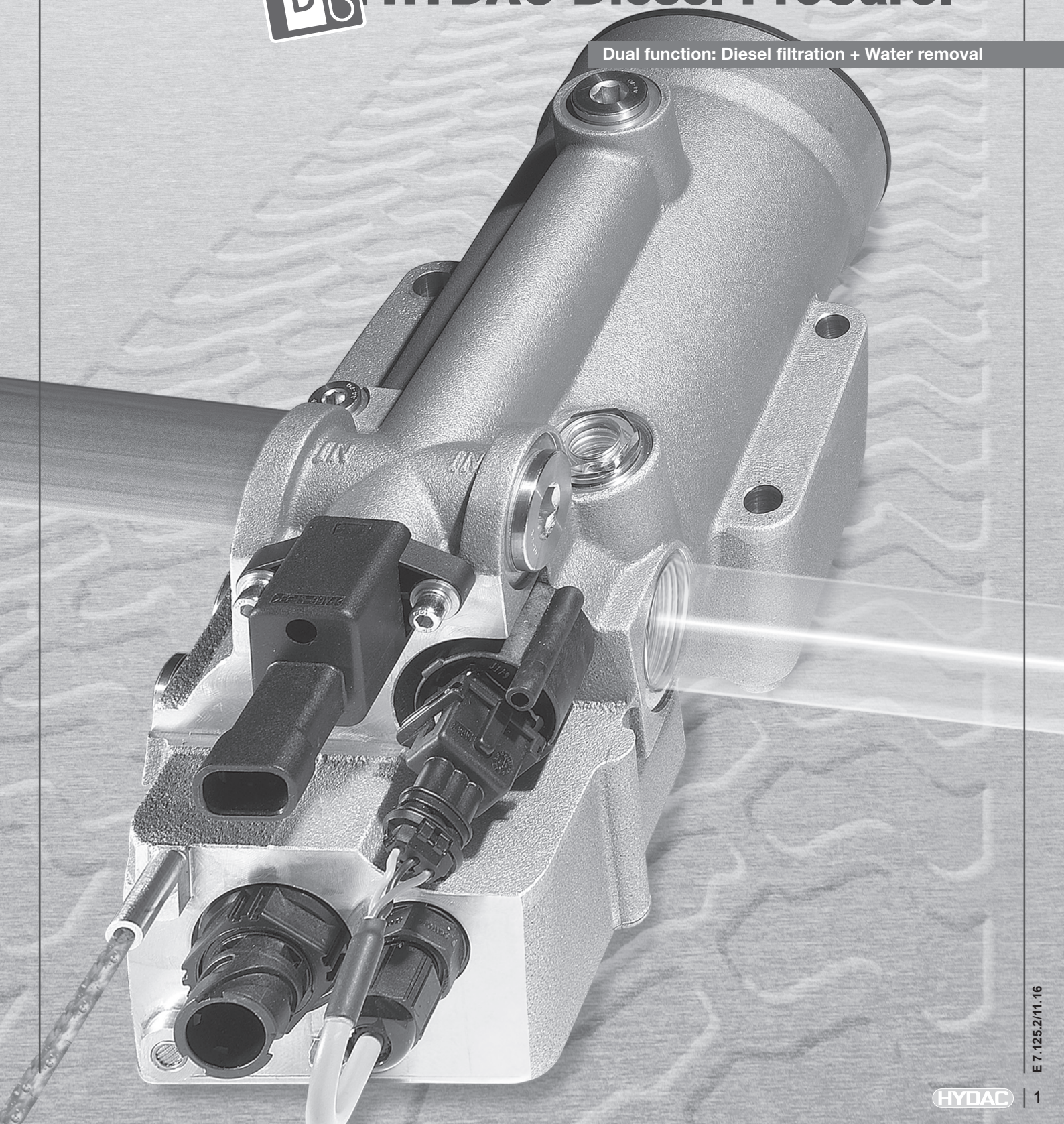




Pre-Filtration for Ultimate Cleanliness and Efficiency: HYDAC Diesel PreCare.

Dual function: Diesel filtration + Water removal



Recipe for success: Constant progress.

Continuous product improvement is our driving force.

It is through product innovation and efficient solutions that we meet the steadily growing demands of our customers as leaders in technology.

With over 8,000 employees and over 500 sales and service partners we are in close contact with our customers all over the world.

Innovative solution and sound design.

Mobile machines and commercial vehicles are subject to the toughest working conditions all over the world. To ensure smooth running of vehicles and to protect both the engine and the whole drive system from damage, optimum diesel fuel conditioning is particularly important. With its new Diesel PreCare, HYDAC offers a modern system for diesel filtration which protects vehicle manufacturers and operators from failures, breakdowns and expensive service interventions.

Our solution
"HYDAC Diesel PreCare",
is a cup filter system
available in two versions:

Manual water discharge (BestCost design)

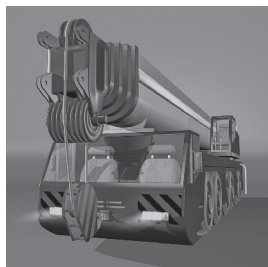
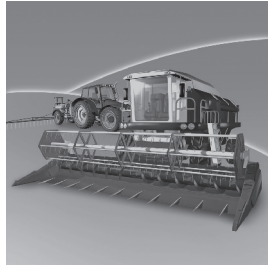
The conventional,
operator-dependent solution.

Fully automatic discharge Plug & Play (High Tech design)

The innovative solution for
fully automatic dewatering,
independent of the operator,
even during suction-side operation.

Outstanding performance data
achieved by 2-stage water removal
and superb filtration characteristics
through the use of synthetic media
- these are the special features of
these filters.

Both systems are designed for use
as pre-filters on the suction-side
and as such protect all the pumps
and components in the fuel system
from water and contamination.



Innovative diesel filter. In black and white:

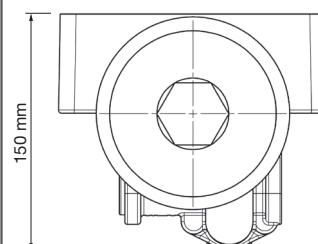
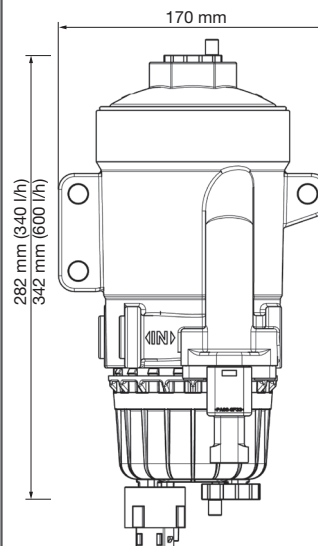
SPECIFICATIONS

Flow rate:	BestCost design: up to 600 l/h HighTech design: up to 600 l/h
Temperature range:	BestCost design: -40 °C to +90 °C HighTech design: -20 °C to +90 °C
Nominal voltage:	24 V DC (option 12 V)
Rated power Fuel preheating:	300 W
Filtration rating:	Various (Standard: 10 µm)
Water separation efficiency:	> 95 % to ISO CD 16332
Operating pressure:	< 1 bar (suction-side application)

BestCost design

- Inlet / Outlet: M22x1.5
(others on request)
- Water discharge: manual
drain plug
- Available in 2 sizes:
HDP BC 340
and HDP BC 600

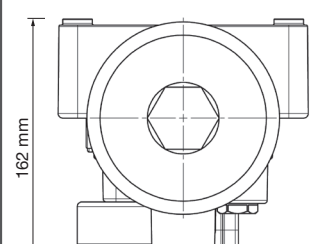
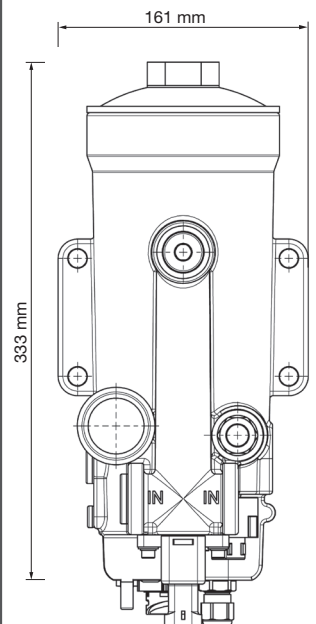
DIMENSIONS



HighTech Design

- Inlet / Outlet: G³/₄
(others on request)
- Water discharge: Automatic
discharge unit
(including electronic
control, safety
valve, pump
and water sensor)

DIMENSIONS

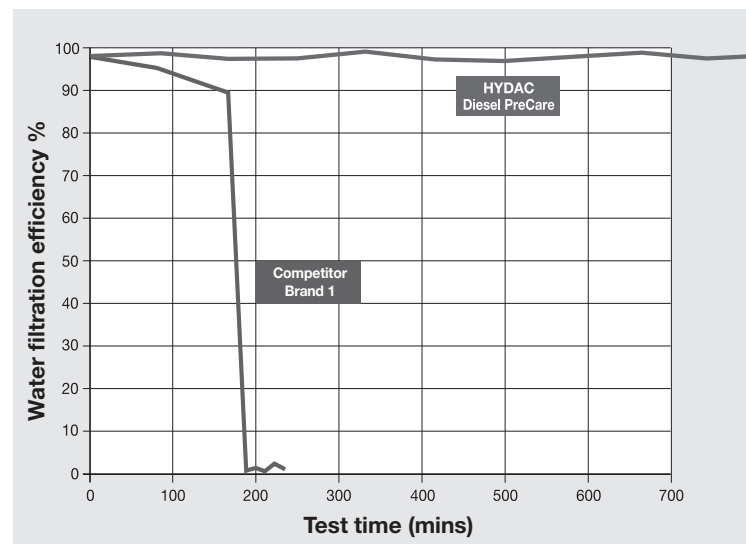


Reliable performance.

Unbeatable quality!

Compared to the competition, HYDAC Diesel PreCare shows clear advantages with regard to water removal and filtration performance.

Clean-side water removal using purely synthetic filter media combined with the hydrophobic barrier, has proved itself under the toughest conditions.

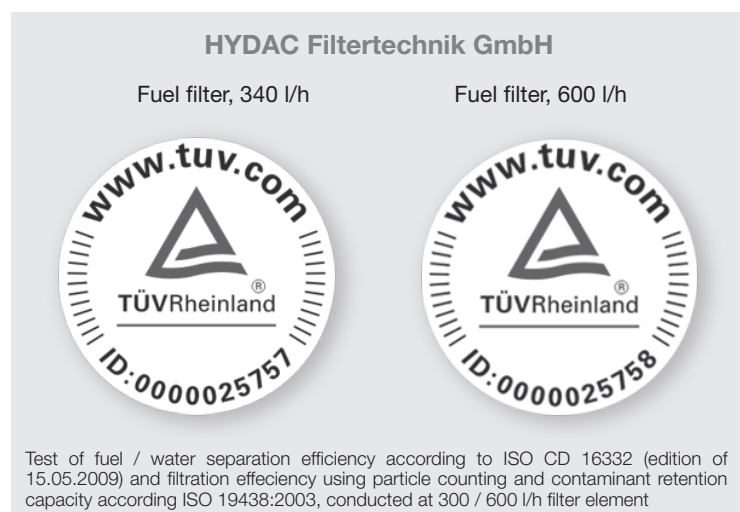


Competition: Massive water penetration after a test time of just 180 minutes.

HYDAC Diesel PreCare:
Clean-side water removal using purely synthetic filter media combined with hydrophobic barrier has proved itself in comparison to the competition, and after a very long test time (730 minutes).

TÜV certified filtration system.

Both versions of the HYDAC Diesel PreCare Filtration System are certified by TÜV.



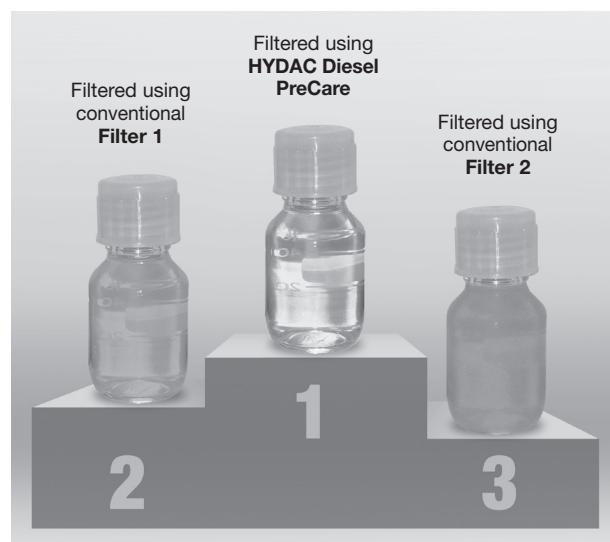
For further information, please contact
Technical Sales, HYDAC Filtrertechnik GmbH.
Tel.: +49 6897-509-1438
E-Mail: fuel@hydac.com

HYDAC Diesel PreCare Product benefits.

- Low residues of diesel left in the filter element when servicing
- Compact design
- Reliable radial seal
- Captive seal design
- Visual analysis of the contamination possible (Rust, metallic swarf, unusual deposits, which require further investigation)
- Protection from imitations by means of Quality Protection
- Prevents first-line contamination by hard particles
- Prevents ingress of contamination as a result of corrosion

Reliable machine availability.

- Resulting from first-class contamination retention
- Due to highly effective and stable water removal on the clean-side for the entire life of the filter element
- Life-long efficiency, because at element change, the water removal stage is always replaced
- Due to the excellent water removal, (achieved by using first class materials) of >95 % to ISO/CD 16332



This comparison of three diesel samples after filtration provides the proof. Even with the naked eye the exceptional cleanliness of the diesel **filtered with the HYDAC Diesel PreCare** is obvious.



Guaranteed HYDAC quality

thanks to HYDAC Quality Protection.



TÜV Certification

Best cold start characteristics

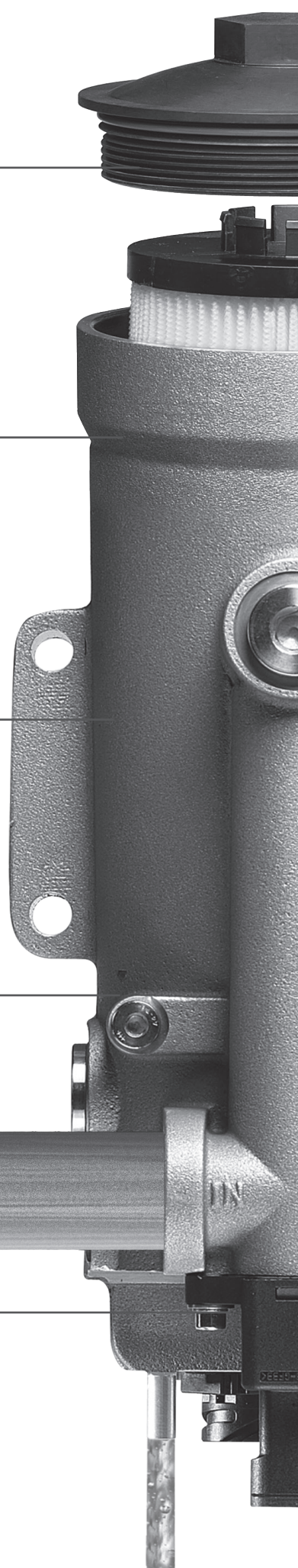
due to low pressure drop
and cup filter design

Environmentally responsible

uses incinerable elements.

Outstanding water removal

achieved by the two-stage system.



Link between Diesel Fuel and Diesel Power.

High performance stability

Efficient water removal
over the entire service life.

Element change = Complete overhaul

The water removal stage built into the element
is replaced when the element is changed.

Extremely easy to maintain

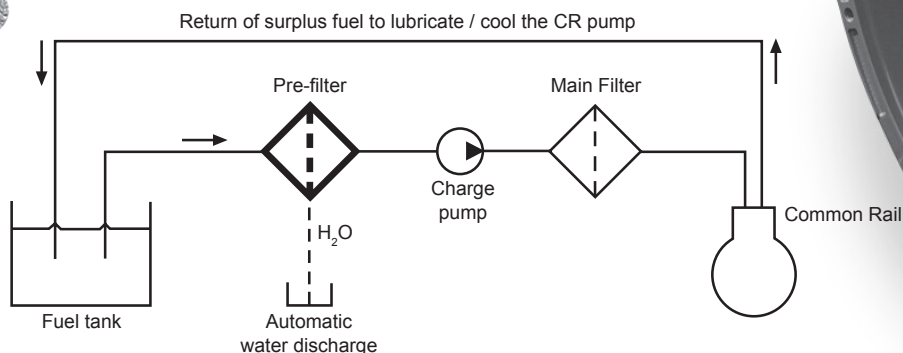
due to quick and simple element change.

Flexible in use

due to inlet/outlet options

Ready-to-use at any time

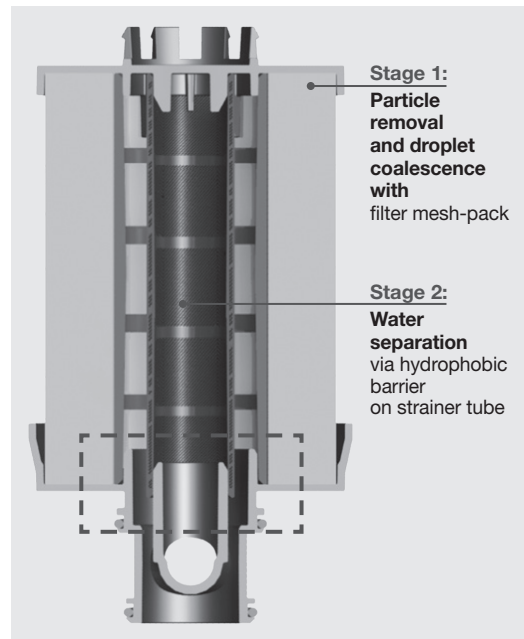
self-sufficient system, Plug & Play



Compact and Easy-to-Service.

New element technology: Fuelmicron Filter element with 2-stage system.

Element construction



Particle removal and droplet coalescence (1st Stage)

By using purely synthetic filter media, a high contamination retention capacity and steady coalescence is guaranteed.

Water removal (2nd Stage)

A hydrophobic barrier on the strainer tube guarantees reliable separation of the water droplets formed during Stage 1.

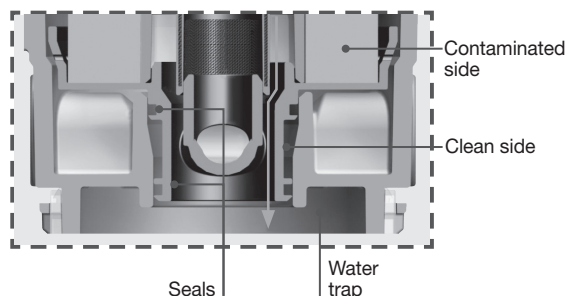
Filter element Fuelmicron



A new type of filter element in two-stage design which combines outstanding dewatering irrespective of the contamination level with excellent particle filtration at the same time.

Unique filter element design.

The Diesel PreCare in the BestCost design has a filter element with a **unique end cap design which is integral to its function.**



Function:

The end cap has separate fluid pathways so that the cleaned fuel flows to the clean side (ring channel in the filter housing), while the separated water collects in the water trap.

Increased operating reliability:

achieved through strict separation of contaminated and clean sides.

No risk of contamination

at the fluid outlet of the housing during element change

because the clean-side and inlet-side channels are vertically parallel to each other.

Integrated

Quality Protection:

Highest level of reliability.

Unless an original HYDAC element is fitted in the housing, then the full function of the filter is not guaranteed

because element end cap which is integral to its function will be missing.



We prevent inferior quality imitation elements from being fitted because the element end cap design is critical to its function, and has **Quality Protection.**

As a consequence, we can always guarantee our customers proven and first-class HYDAC Quality.

Ultimate system protection and guaranteed operating reliability achieved through guaranteed spare part quality.

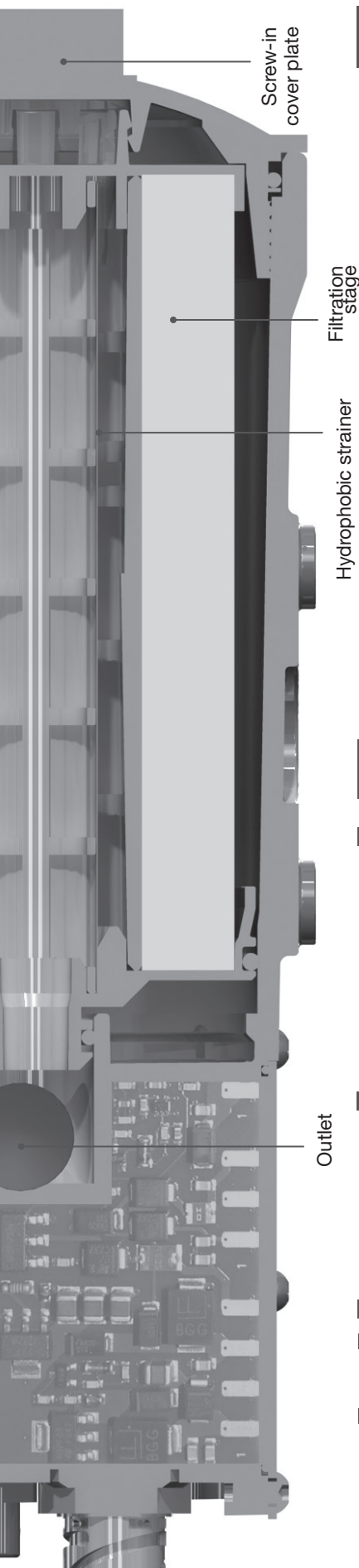


Fuel water mixture

Fuel

Water

Innovative Technology



Easy to service and environmentally sound.



Easy to service as the element can be changed in 3 simple steps:

1. Unscrew clogged element
2. Fit O-ring to new element and cover plate
3. Screw in new element

We are helping to protect our environment by using **fully incinerable filter elements (no metallic components)**.

HYDAC Diesel PreCare Customer Benefits.

General:

- **Great flexibility with regard to installation position**
since inlet and outlet can be in either direction
- **Consistent dewatering over the entire life of the filter element**
since water is removed on the clean side
- **Robust design**
thanks to aluminium housing

BestCost design:

- **Low investment costs**
due to cost-optimized design
- **Economical and technically reliable operation**
as a result of long element service life
- **Water sensor and fuel preheating**
available as options

HighTech design:

- **Reliable dewatering**
thanks to automatic water discharge, even during suction-side operation
- **Small installation space required,**
since lower section of filter does not have to be accessible
- **Simple adaptation to the on-board power supply (Plug & Play)**
through the use of independently controlled water discharge
- **Ultimate in weather protection**
Robust design for the rough, long-term site operations

Development on a scientific basis.

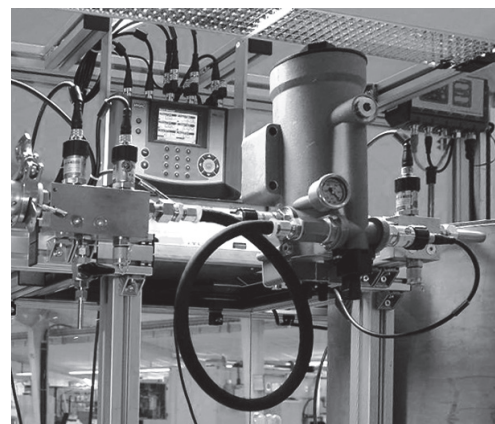
In developing filter solutions to suit specific applications, HYDAC leaves nothing to chance. In addition to using the most up-to-date programs from CAD to FEM to make their designs, HYDAC invests heavily in the most modern research and test laboratories. Based on the results of scientific tests, efficient filters can be produced and tested systematically.

Development of filter and element to suit the specific application.

Tensiometers, Karl Fischer titration equipment, rinsing cabinets to determine component cleanliness, test rigs for multipass tests and water removal efficiency are in use on a daily basis.

These are just some of our in-house capabilities for testing and improving our products in addition to numerous other test and measuring equipment.

With filters which have passed through these test laboratories, you can be sure of success.



HYDAC Laboratory and test rig
to determine the efficiency of water removal.



Oil analysis in the HYDAC Laboratory at company headquarters.



Just one example of the numerous filter testing procedures:
Multipass test rig.

The information in this brochure relates to the operating conditions and applications described.
For applications or operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.

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