

Aviation Fuel Filtration & Monitoring Sensor Technology



Filtration



Sensors



Applications



Services

MAXIMIZING OPERATIONAL
EFFICIENCY AND SAFETY



Pioneering innovations to ensure clean dry fuels

QUALITY GUARANTEES SAFETY

Market-based solutions



■ Clean, dry aviation fuel is a basic prerequisite for aviation safety. Only the most highly specified products, manufactured to the highest quality by specialists in the field, provide the necessary assurances.

Typical contaminants that may be present in aviation fuels include free water, particulate, microbiological growth and surfactants. These contaminants can be introduced at any stage in the distribution system and can cause adverse effects on the fuel management and control systems on-board aircraft.

Particulate must also be filtered to the minimum, otherwise on-board filters may block resulting in bypassing and particulate reaching the aircraft fuel components and engines.

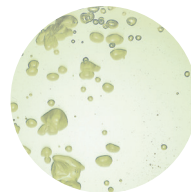
For decades, FAUDI Aviation has been researching innovative filtration solutions and pioneering sensor technologies. By deploying fuel quality monitoring electronics, every operating site has the potential to generate fuel quality data. Monitoring fuel quality data is key to maximizing the efficient use of resources. FAUDI Aviation sensors make it possible to turn data into actionable information.



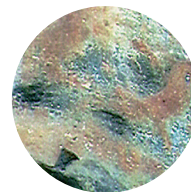
Sand



Rust



Free Water



Microbiological Growth

Free water can be considered the major contaminant as microbiological activity takes place at the interface between fuel and water and the resultant slime corrodes and effects aircraft fuel systems. Additionally, due to the low temperatures at high altitudes, ice crystals can form and block fuel lines.

With the most advanced filtration and electronic solutions, FAUDI Aviation can take your preventive maintenance practices to the next level. Our solutions help to deliver clean aviation fuel and will help lower operating costs and ensure an efficient work process.



SENSOR TECHNOLOGY

Precision and Innovation

■ The distribution of aviation fuels from the refinery to the aircraft includes many stages where various contaminants enter the fuel distribution system. Continuous monitoring of fuel quality in all areas of use is necessary in order to meet the highest safety requirements.

As the pioneer in new developments and use of innovative technologies, FAUDI Aviation recognized early on that continuous monitoring, recording and evaluation technology make the handling of aviation fuel simpler, more economically efficient, and ultimately much safer.

Our product range comprises state-of-the-art sensor technology for the detection of free water in fuel, detection of bulk water such as in sumps of filter/water separators, as well as a logic controller for constantly processing the actual water content in fuel. Detection and monitoring take place in real time. Users are continuously informed of the quality about the fuel and can take action in good time if there are any deviations.

FAUDI Aviation sensor technology offers the right solution with a worldwide reach.



Whether a light sport or wide bodied aircraft is refuelled, fuel quality from refinery to aircraft is our top priority.



Electronic sensor for the detection of free water in aviation fuels

- Maximum accuracy through reliable sensor technology
- Trusted by global fuelling operators for more than 10 years
- For use downstream of all filtration technologies to verify filter performance
- Accepted by A4A and JIG
- Qualified to specification EI 1598 2nd Edition



SLUGGUARD® Electronic Bulk Water Sensor

- Electronic sensor to distinguish between aviation fuel and water
- The SLUGGUARD® enables continuous detection of water in sumps of filter/ water separators or in drain points of filter vessels
- Qualified to specification EI 1592



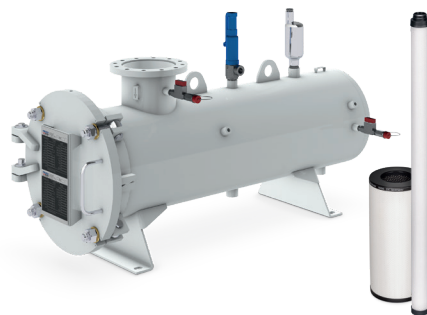
Contamination Control System (CCS)

- Logic controller for use in combination with the AFGUARD® EWS
- The Contamination Control System (CCS) is constantly processing the actual water content in aviation fuels



FWS FW24-H-T

- Qualified to EI 1581 6th Edition, Category C, Type S-M
- Fitted with 2" Coalescers
- Comparatively lighter and smaller than a FWS with 6" Coalescers
- 6 standard models held in inventory for shortened delivery times
- Proven technology

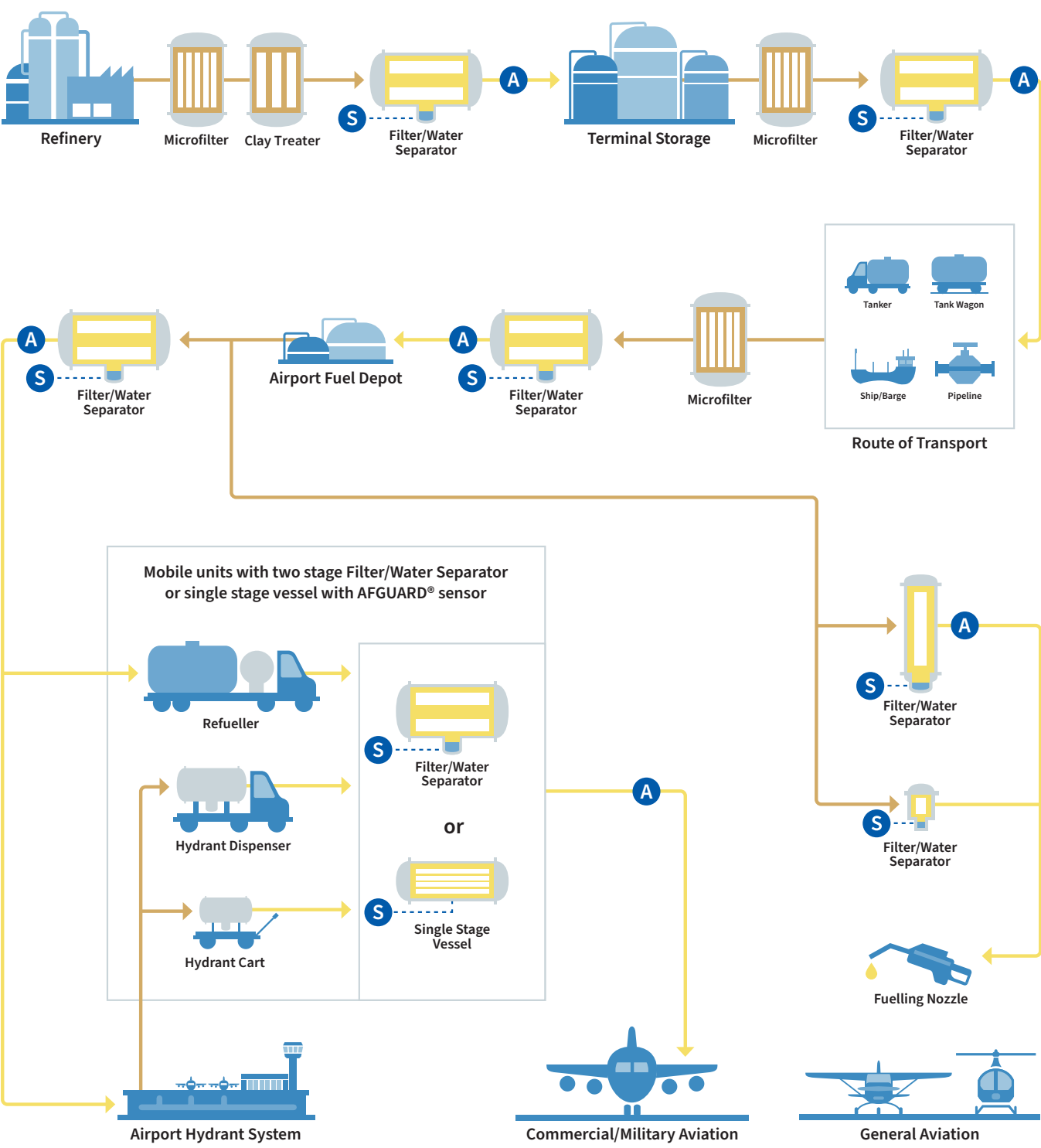


Dirt Defence Filter Vessel

- Qualified to EI 1599 2nd Edition
- Shall be used in conjunction with the AFGUARD® Electronic Water Sensor (EWS)
- The EWS technology becomes the data source for highest performance and service life of filter elements
- Comparatively low weight and small diameter
- Life time of elements is up to 5 years or dP

YOUR AVIATION INDUSTRY PARTNER

Superior Filtration Products



A AFGUARD®

S SLUGGUARD®

Clean and Dry Fuel

Risk of Contaminated Fuel

Research, Lab & Filter Manufacturing Capabilities

Maximizing Operational Efficiency, Performance and Sustainability

■ Filters and sensors that are used in the handling of aviation fuels are subject to strict international controls and must be approved for their application.

Therefore, before market introduction, all FAUDI Aviation products are tested under industry expert witnessing with comprehensive qualification runs based on the respective specification. For this purpose, FAUDI Aviation has a test rig in its research and development department that is one of the most technologically advanced of its kind. The interconnected labs review raw materials whilst new products are being developed and test the products under controlled conditions, before qualifying them for production and application.

Manufacturers from similar industries and military facilities use the FAUDI Aviation test rig to test their own products under realistic conditions for qualification tests.

The expertise of our Research & Development Department comes from many years of experience used filter elements and the continuous development of our product range. End user focused analysis and evaluation methods ensure economic and effective solutions across the product range.

Continuously developing test methods and application-oriented research characterise the power of innovation at FAUDI Aviation GmbH.



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