

IAEF Baku

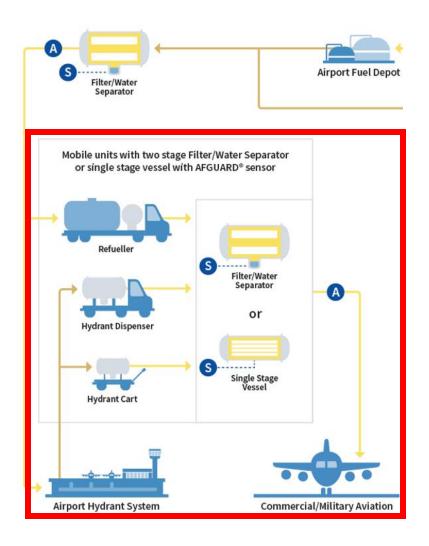
MAY 2025

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INTO PLANE



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QUALITY LEVEL INTO PLANE

| | Contaminant limit | | | |
|------------|----------------------------------|---|---|---|
| Location | Water | Particulate (gravimetric) | Authority | Comments |
| | Clear and bright | | | After-fuelling check |
| | 30 ppm | 1,0 mg/l | IATA Guidance Material | Rejection limit for monthly equipment check |
| Into-plane | Clear and bright | 0,44 mg/l | Canadian General Safety Board 3.23- 2005 | |
| | 15 ppm (maximum allowable) | A2, B2, and G2 (Dry) <u>A3, B3, and</u> <u>G3 (wet)</u> <u>0.5 mg/l</u> | ATA 103 | Colorimetric interpretation of a gravimetric membrane. |



FILTRATION SPECIFICATIONS FOR INTO PLANE

- Filter water separator (El 1581 / El 1582)
- Water barrier (El 1588)
- Dirt defence + EWS (EI 1599 + EI 1598)
- (EI 1587)

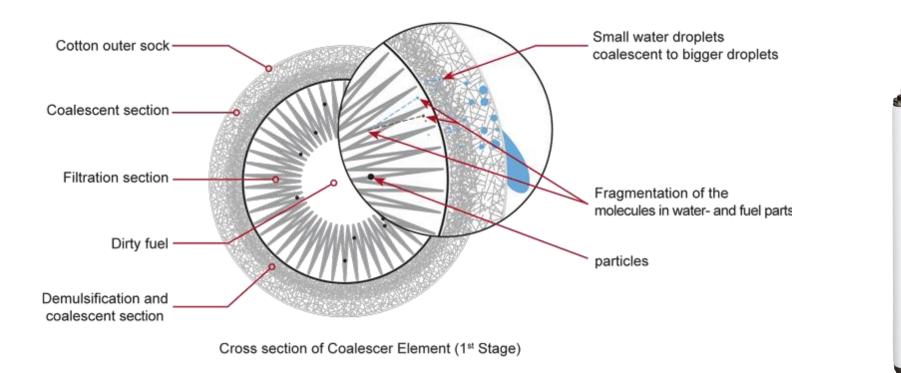


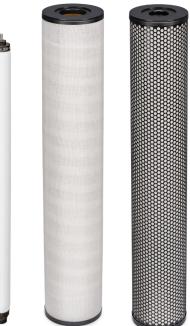
FILTER/WATER SEPARATORS

- Filter/water separators consist of a two-stage system designed to remove free water and particulates from aviation fuels
- Available to operate in commercial aviation fuel (defined as category C), military aviation fuel (defined as category M)
- Intended for use at mobile filtration (e.g. into plane) points where low levels of free water and particulate in fuel can be expected (S-LW and S-M)
- The test procedures to qualify a system are described in EI 1581
- In EI 1582 it is described how similarity is looking like, and which parameters must be meet to qualify the actual(candidate) system versus a tested one



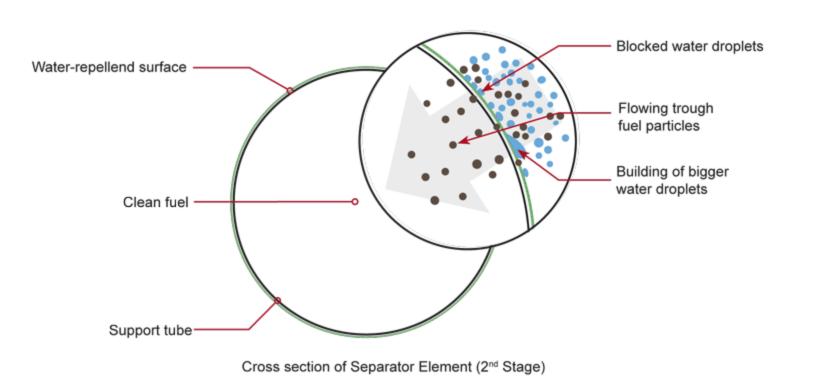
FILTER/WATER SEPARATORS







FILTER/WATER SEPARATORS



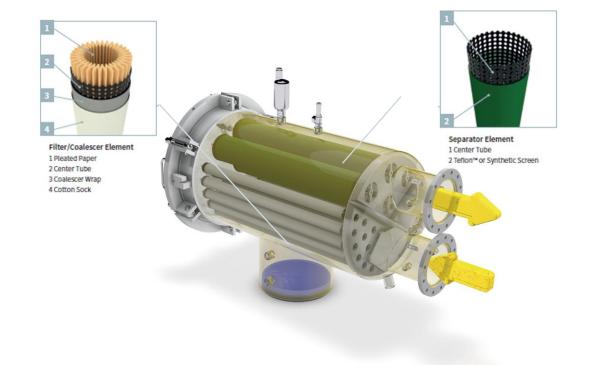




EI 1581 FILTER WATER SEPARATOR

FWS with 2" coalescer and 4"Separator

| Approved | 1. Stage | 2. Stage |
|----------------|-------------|-------------|
| manufacturer | (Coalescer) | (Separator) |
| FAUDI Aviation | P2.X-XXX-X | |



Qualified to C-S-M and M-S-M

Do not mix manufacturers!!!

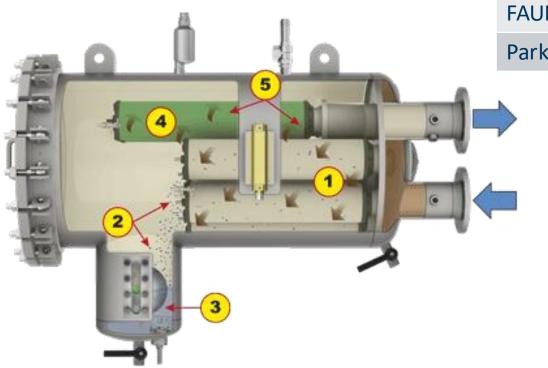
Always use similarity to confirm compliance!!!



EI 1581 FILTER WATER SEPARATOR

FWS with 6" coalescer and 3", 4" or 6" Separator

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| Approved manufacturer | 1. Stage (Coalescer) | 2. Stage (Separator) |
|------------------------|-------------------------|----------------------|
| Facet Filtration Group | CAA-XX-XXX | SS/STXXXX-X |
| FAUDI Aviation | T.X-XXX | 60.X-XXX-XX |
| Parker Velcon | I-XXXXX-XX | SO-XXX-XX |

Qualified to C-S-LW for civil application

Do not mix manufacturers!!!

Always use similarity to confirm compliance!!!

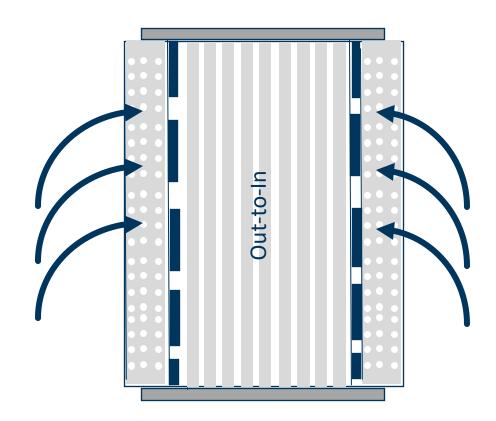
EI 1588 WATER BARRIER



- Continuously removes particulate and separates free water from aviation fuels
 - Emulsified water droplets are blocked by a porous hydrophobic material
 - Blocked water coalesces on the hydrophobic surface, falls off to drain
- Elements of 50 mm (2 inch) nominal diameter up to 76 cm (30 inch) nominal length flowing out-to-in
- Nominal flow rate of 2.5 litres/sec/m (1.0 gpm/inch length)



EI 1588 WATER BARRIER







EI 1588 WATER BARRIER



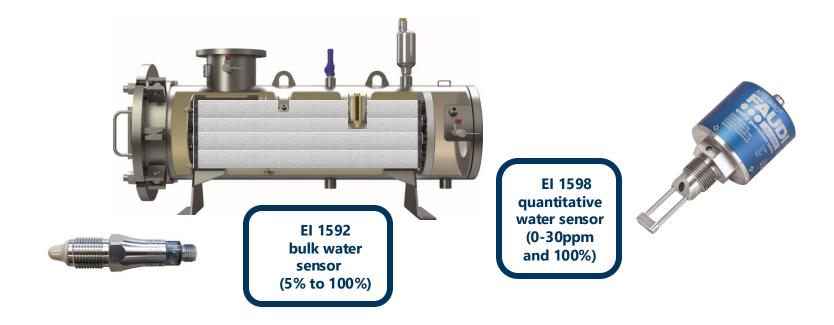
| Approved manufacturer | |
|------------------------|-----------|
| Facet Filtration Group | FWB-XXX |
| Parker Velcon | CDFX-XXXX |

Drop in solution to replace 2" monitor elements Description CDFX-XXXB or FWB-XXX



EI 1599 + EI 1598 DIRT DEFENCE AND EWS

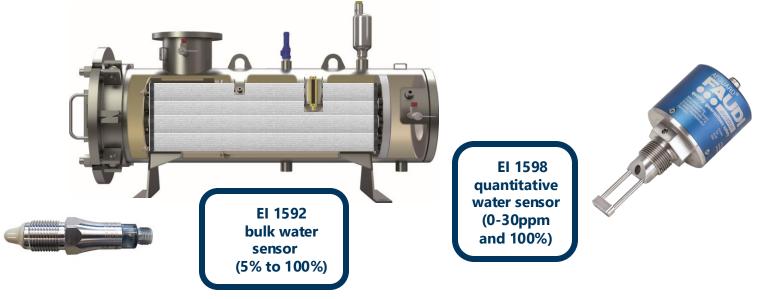
- Dirt Defence Filters qualified to EI 1599
- Operate in conjunction with an El 1598 free water sensor
 - ► EI 1598 quantitative electronic water sensor mandatory





EI 1599 + EI 1598 DIRT DEFENCE AND EWS

- Dirt Defence Filters qualified to EI 1599
- Operate in conjunction with an El 1598 free water sensor
 - El 1598 quantitative electronic water sensor mandatory
 - El 1592 bulk water sensor optional





EI 1599 + EI 1598 DIRT DEFENCE AND EWS



| • • | | EWS acc. El 1598 | Dirt defence |
|----------------|----|-----------------------------|--------------|
| FAUDI Aviation | 2" | AFGUARD® | DDO2.X-XX-X |
| FAUDI Aviation | 6" | AFGUARD [®] | DDO6.X-XX-X |





QUESTIONS?







FAUDI Aviation GmbH

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