



CRITICAL FUEL SYSTEMS

Advancing Filtration for a Cleaner World





With over 80 years of experience, Facet is a trusted global leader in delivering high-quality filtration solutions.

We specialize in protecting mission-critical fluids, safeguarding the integrity of vital processes across diverse sectors.

Guided by a commitment to quality, reliability, and customer satisfaction, we provide innovative solutions tailored to meet unique industry needs. Our mission is to help you reduce downtime, extend equipment life, and meet environmental goals through reliable and efficient filtration.

Our products are engineered to deliver superior performance, durability, and compliance with the most stringent industry standards, ensuring operational excellence and long-term value for our clients. We prioritize exceptional service, lead times, and a customer-focused approach that promotes collaboration and drives results. This enables us to exceed expectations at every stage.

CRITICAL FUEL SYSTEMS



These solutions leverage 80 years of diesel purification experience to deliver contaminate-free fuel to backup generators in mission-critical applications, ensuring the reliability of the world's most advanced diesel engines.

Our advanced systems:

- Eliminate water and prevent microbial growth in stored diesel
- Prevent premature degradation of stored diesel
- Accommodate green fuel products such as Hydrotreated Vegetable Oil (HVO) and Biodiesel blends
- Mitigate contamination resulting from storage tank agitation
- Exceed the most stringent OEM cleanliness requirements in a single pass
- Maintain fuel quality standards during high usage events when fuel consumption is highest and quality is most critical

These systems offer a range of flow rates and installation flexibility designed to meet diverse operational needs.

Whether used for continuous bulk fuel conditioning or single-pass polishing during transfer, they provide a complete, economical and versatile solution.

APPLICATIONS



POWER PLANTS



REFINING



OFFSHORE WIND



DATA CENTERS



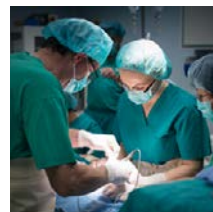
MINING



MARINE



COLD STORAGE

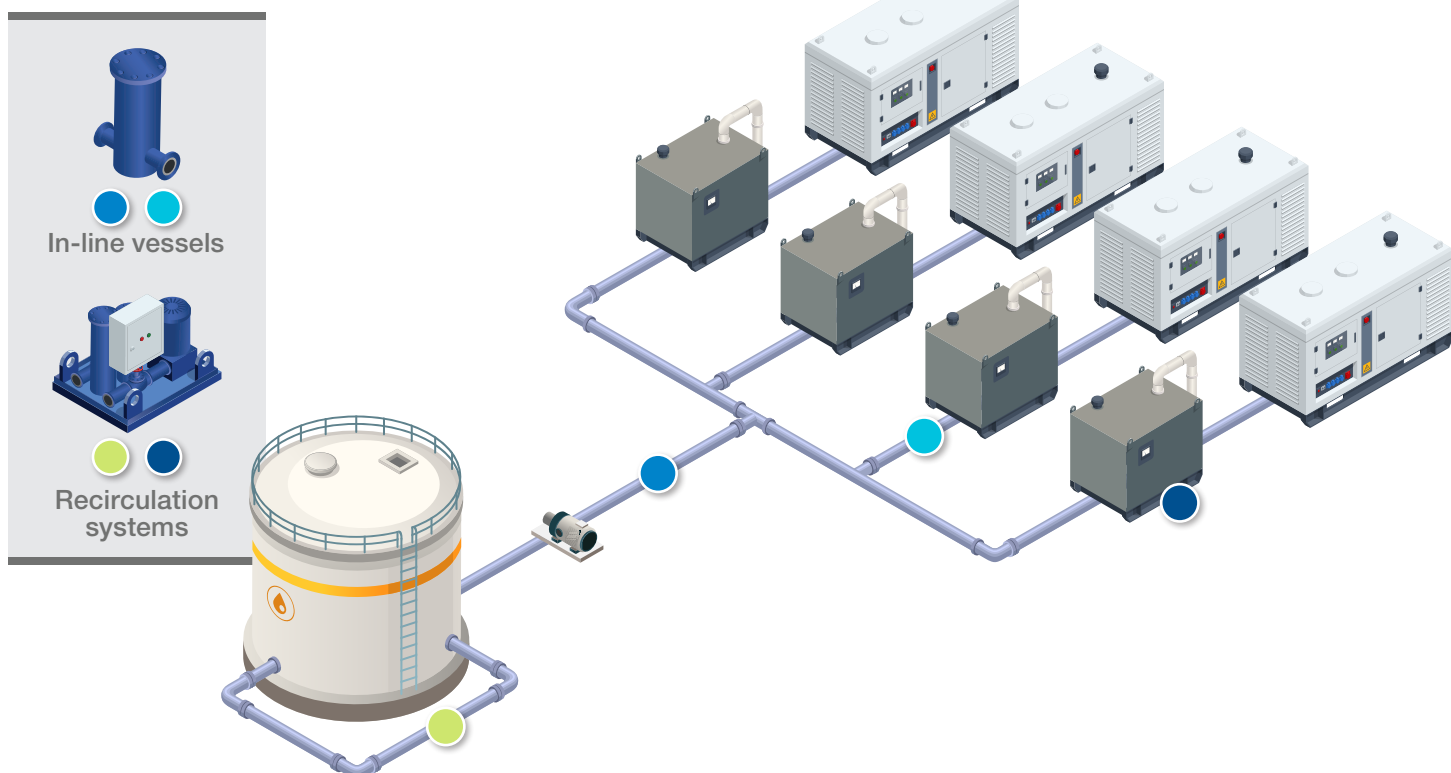


HEALTHCARE
FACILITIES



MUNICIPALITIES

OPTIONS FOR SYSTEMS INTEGRATION



CRITICAL FUEL SKID

Over the storage life of diesel fuel, continuous fluctuations in water content and suspended sediment significantly increase the risk of microbial growth, injector fouling, and catastrophic generator failure.

This fuel polishing skid combines our advanced particulate removal and water separation technologies to remove 100% of damaging water and deliver ISO cleanliness codes far exceeding the most stringent industry standards.

This packaged solution draws fuel from bulk storage, polishes it, and returns it back to storage on a continuous or as-needed basis, ensuring diesel life and protecting the critical components of modern diesel generator engines.

SINGLE-PASS VESSELS FOR BULK TRANSFER TO/FROM FUEL STORAGE

Maintaining fuel cleanliness is essential during high usage events when fuel consumption is highest and quality is most critical.

Designed for integration into facility fuel transfer lines, these vessels protect fuel and exceed the most stringent OEM ISO Cleanliness Codes in a single pass without sacrificing filter element life.

Available in configurations for comprehensive water removal or dedicated particulate filtration, these versatile systems can be tailored to address your specific fuel quality challenges.

SINGLE-PASS VESSELS FOR TRANSFER TO DAY TANKS

Ensuring uninterrupted power supply during an outage requires uninterrupted delivery of clean fuel to all generators.

Facet's single-pass vessels seamlessly integrate into fuel transfer lines upstream of individual day tanks to provide dedicated protection against dirty fuel when usage is highest and cleanliness is most critical.

Strategic placement of these vessels creates redundancy in your fuel forwarding system and lessens the burden of high-volume particulate removal on the on-engine fuel filters during high-demand events.

CRITICAL FUEL CART FOR DAY TANKS

This mobile fuel polishing cart combines our advanced particulate removal and water separation technologies to remove 100% of damaging water and deliver ISO cleanliness codes far exceeding the most stringent industry standards.

This portable solution can be easily moved between day tanks to polish fuel on an as-needed basis, ensuring diesel life and protecting the critical components of modern diesel generator engines.



Critical Fuel Skid

CFS Series

Facet's Critical Fuel Skid combines our advanced particulate removal and water separation technologies to remove 100% of damaging water and deliver ISO cleanliness codes far exceeding the most stringent industry standards.

This packaged solution draws fuel from bulk storage, polishes it, and returns it back to storage on a continuous or as-needed basis, ensuring diesel life and protecting the critical components of modern diesel generator engines.

Critical Fuel/Water Separator Vessels and Particulate Vessels



CFW Series

In-line Water and Particulate Removal

Facet's advanced coalescer/separator technology integrates water separation and particulate capture to ensure fuel quality during both routine transfer and high usage events.

Designed for integration into facility fuel transfer lines, Facet's coalescer/separator vessels remove 100% of damaging water and ensure OEM ISO Cleanliness in a single-pass.

They can also be paired with particulate removal vessels to achieve cleanliness far exceeding the most stringent industry requirements.



CFF Series

In-line Particulate Removal

Maintaining fuel cleanliness is essential during high usage events, when fuel consumption is highest and quality is most critical.

Designed for integration into facility fuel transfer lines, Facet's particulate removal vessels efficiently remove particulates and exceed the most stringent OEM ISO Cleanliness Codes in a single pass without sacrificing filter element life.

ELEMENTS



Critical Fuel Systems elements deliver contaminate-free fuel to backup generators in mission-critical applications, ensuring the reliability of the world's most advanced diesel engines.



Particulate Elements

High-efficiency particulate filters are designed to remove fine solids that contribute to injector wear and poor combustion. With advanced microglass media, these filters exceed ISO cleanliness targets and extend the life of diesel-powered equipment. Their durable, high-capacity design supports long service intervals with minimal pressure drop.



Coalescer and Separator Elements

A two-stage coalescing and separation process removes free and emulsified water from diesel fuel.

CFS elements ensure water levels are reduced to below 100 ppm, protecting against microbial growth, fuel instability, and corrosion in downstream components.

Part Number		CF-36-3	CF-36-5	CF-20-C	CF-20-S
Element Type		Particulate	Particulate	Coalescer	Separator
Flow Direction		Outside to Inside		Inside to Outside	
Performance	Efficiency	$\beta_x = 1000 @ 4.2\mu$	$\beta_x = 1000 @ 7.1\mu$		
Fluid Compatibility		#2 Diesel, Biodiesel (<B20), Hydrotreated Vegetable Oil (HVO)			
Compatible Vessels/Systems		CFF-50 / CFF-100 / CFF-300 CFF-50-NS / CFF-100-NS CFS-10 / CFS-30		CFW-20 / CFW-60 / CFW-100 CFS-10 / CFS-30	
Operating Temperature Range		50 - 120 °F (10 - 49 °C)			
Terminal Pressure drop		25 psid (1.7 bar)	25 psid (1.7 bar)	15 psid (1.0 bar)	
Nominal Dimensions		6 x 36 in (152 x 914 mm)		3.5 x 20 in (89 x 508 mm)	4 x 20 in (102 x 508 mm)
Weight (approx.)		13 lbs (5.89 kg)		2 lbs (0.9 kg)	



At Facet, we deliver more than just equipment—we provide comprehensive engineering solutions, expert consulting, and complete project management for your oil and fuel conditioning challenges.

Engineered Solutions

Our advanced filtration and coalescing technologies are combined with deep engineering expertise to ensure your project meets every expectation. Whether you need a standard product or a fully customized solution, our team is ready to tackle your most complex oil and fuel purification needs.

Our Engineered Solutions include:

- Application consulting to identify the optimal technical solution
- Standard or custom product design based on your requirements
- In-house manufacturing for quality and reliability

Consulting & Project Management

Facet acts as your strategic partner throughout every stage of your oil and fuel conditioning project. Our experienced engineering team provides expert consultation, thorough planning, and seamless execution to ensure your project's success.



PROJECT OPENING

Initial assessment and understanding of your specific needs

PROJECT PLANNING

Defining the technical solution and evaluating feasibility

PROJECT EXECUTION

Managing product delivery, testing, and inspection

PROJECT CLOSE OUT

System start-up, handover to the end-user, and post-project review

Technical Support & Advisory

Our team is available to provide specialized technical support, from integrating new systems to optimizing existing installations. We offer expert recommendations on system placement, configuration, and best practices to maximize operational efficiency and equipment lifespan.

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