

# Info Sheet

## Fuel Polishing Systems

*Clean fuel. Clean performance.*

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### 1. Overview

IPU SA's **Fuel Polishing Systems** are designed to purify stored diesel fuel — removing water, sludge, particulates, and microbial contaminants to ensure generator reliability and engine performance. These systems are critical for backup generators that may sit idle for long periods, where fuel degradation could cause unexpected failure when power is needed most.

Our commercial-grade polishing systems meet engine manufacturer cleanliness standards and are fully automated for periodic or continuous operation.

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### 2. Key Features

- Removes free water, sediment, microbial growth, and varnish
- Filtration down to <2 microns and water to <100 ppm
- Automated circulation and timed polishing schedules
- Integrated water separators and fuel sensors
- Real-time monitoring with alarms and shutoff logic
- Skid-mounted or wall-mounted configurations
- Easy drain access for water and contaminant disposal
- Long-term fuel stabilization for storage tanks

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### 3. Applications

- Generator backup systems (hospitals, data centers, utilities)
- Fuel storage tanks in remote or standby systems
- Facilities with long diesel storage cycles
- Transportation and aviation fueling stations
- Industrial and mission-critical generator banks

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### 4. Integration Capabilities

- Interfaces with generator controls for pre-start verification
- Can trigger SCADA/BMS alerts for fuel quality or faults
- Standalone or integrated into diesel tank enclosures
- Custom logic for multi-tank rotation and remote start/stop

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### 5. Certifications & Standards

- Designed to meet ASTM D975 and ISO 4406 fuel cleanliness standards
- Compatible with NFPA 110 generator fuel system guidelines
- Built with OEM-approved filtration and pump components
- Factory tested and ready for field deployment