



DIESEL DEFENCE

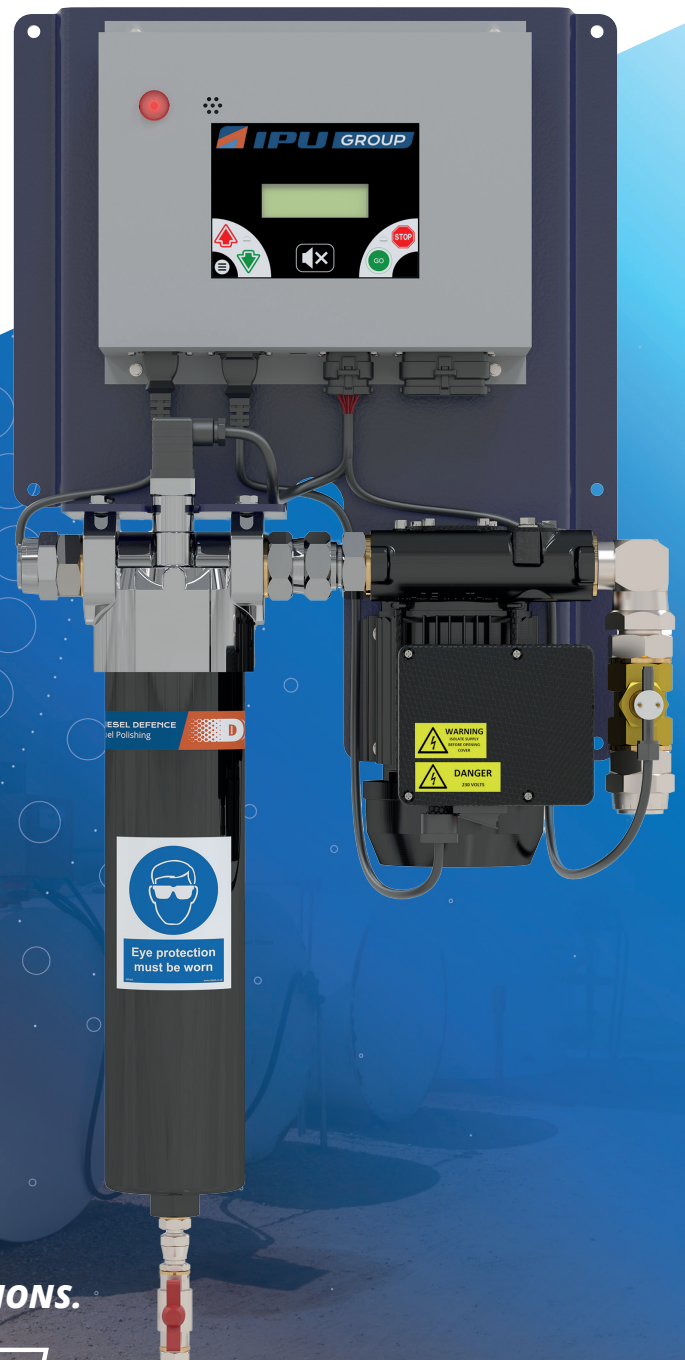
EKO SYSTEM



*Protect your high-value capital equipment
with smart fuel cleaning technology.*

87%
**HIGHER FUEL CLEANING
CAPABILITY THAN THE
INDUSTRY STANDARD
OF ISO4406**

**FOR STORAGE TANKS
UP TO 10,000 LITRES
CAPACITY**



CRUCIAL EXPERTISE FOR CRITICAL APPLICATIONS.



SMALL ENOUGH TO FIT, BIG ENOUGH TO PERFORM

The EKO System with Kapture technology is a high-performance fuel polishing system that represents a major step forward in protecting diesel fuel from harmful contaminants in storage tanks up to 10,000 litres capacity.

The system builds on IPU Group's extensive expertise in fuel management and brings together a compact high-performance fuel polishing unit with an intelligent microprocessor control module. This specialised combination is custom designed to monitor and control fuel cleaning systems with a lower purchase and lifetime maintenance cost in mind.

But this is achieved without compromising on performance. The EKO System with Kapture Technology delivers an exceptional cleaning capability that is 87% higher than the industry standard, achieving a 13/11/18 level of cleanliness at both high and low flow rates.

It's the perfect polisher to ensure your stored fuel remains in its best condition.

SMART ENOUGH TO CAPTURE MEANINGFUL DATA

At the heart of the EKO System with Kapture Technology polishing system is a microprocessor-controlled input/output control module, which is installed and connected using simple plug-n-play connections and enables remote configuration and continuous monitoring anytime.

System flexibility is essential when operating in a diverse range of applications and so monitoring is highly adaptable, whether using the programmable seven-day time control function, manual control (fascia control) or expanded further to manage communication remotely via BMS input or RS485. The system can function in either full mode for more regular operation or 'holiday mode' when running for limited or occasional periods.

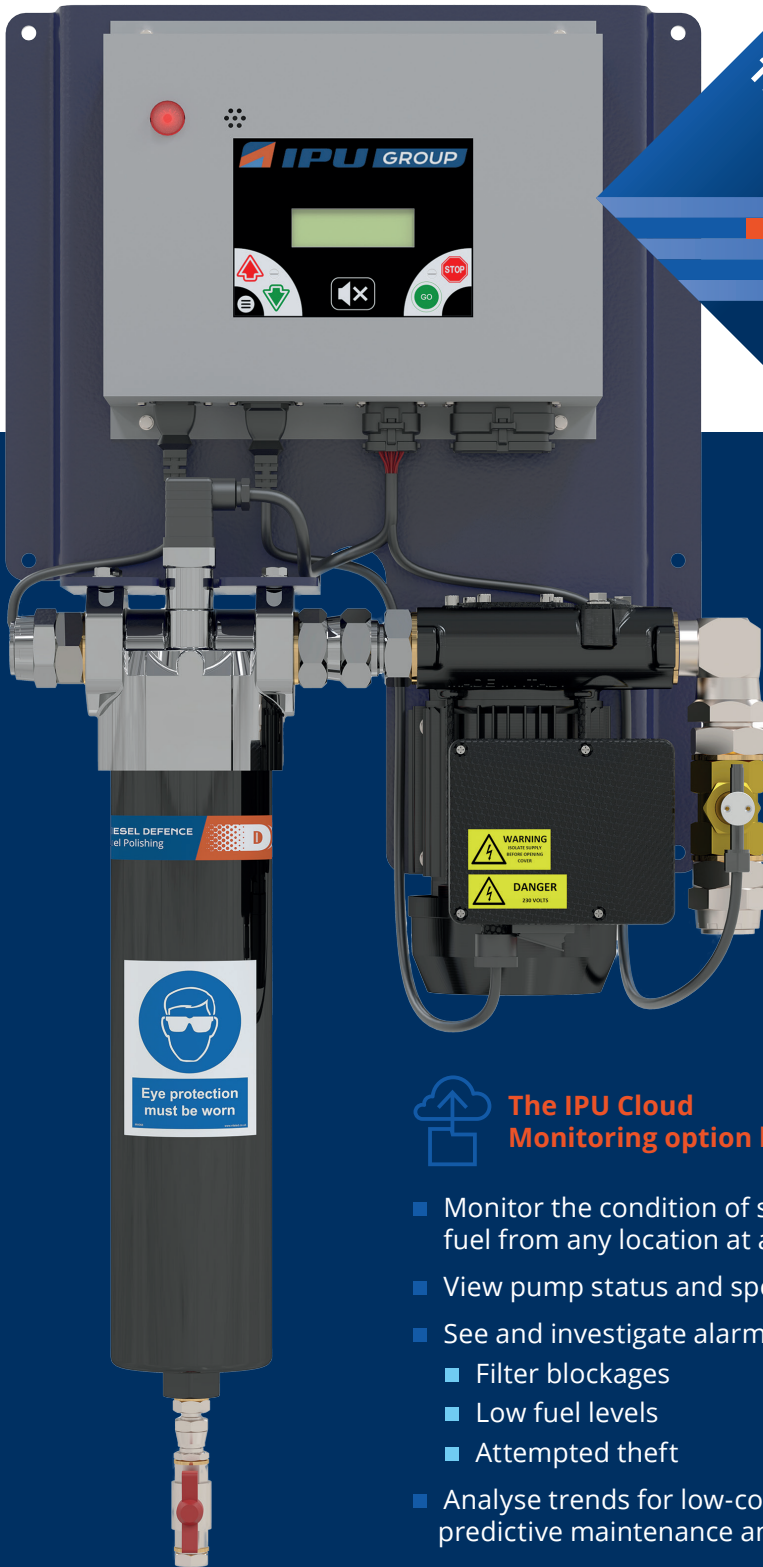
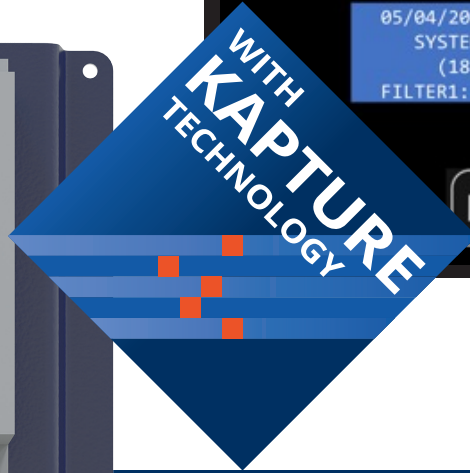
If the system senses a fault, a built-in 90db buzzer and light beacon (flashing or continuous) becomes activated, and in standard operation, alerts to either blocked filter or no flow condition. In addition, the control panel incorporates thermal overload protection for pumps, and monitors feedback alerting the user to a pump fault which would prevent the fuel from being properly maintained.

The system integrates with almost any sensor (0-5V, 0-10V, 4-20mA, Resistive and Digital), allowing the EKO System with Kapture Technology to be extremely flexible. All sensor data can be saved in the control panels non-volatile memory, allowing up to two years (depending on frequency and quantity of sensors being saved) of historical data to be captured by the panel for direct viewing on the LCD display or to download via IPU's own EARL™ software via a USB connection.

Continuously monitor fuel contamination levels and analyse trends data over time.

Analytical data and trend information can be saved and downloaded from the system allowing a deeper analysis of site conditions which could affect fuel condition or cause degradation.

System is pre-configured with standard dashboard for simple editing



The EKO System with Kapture Technology control panel has expandable ability to take in I/O from external inputs such as:

- Pressure Sensors
- Fuel Temperature Sensors
- Fuel Cleanliness Sensors
- Particle Counter
- Emergency Stop Button
- A Bund Switch
- External BMS inputs or RS485 inputs



The IPU Cloud Monitoring option lets you:

- Monitor the condition of stored fuel from any location at any time.
- View pump status and speed.
- See and investigate alarms.
 - Filter blockages
 - Low fuel levels
 - Attempted theft
- Analyse trends for low-cost, predictive maintenance and service.
- Change unit configuration.
 - Start/Stop.
 - Running times, etc.
- Reduce maintenance and service costs.



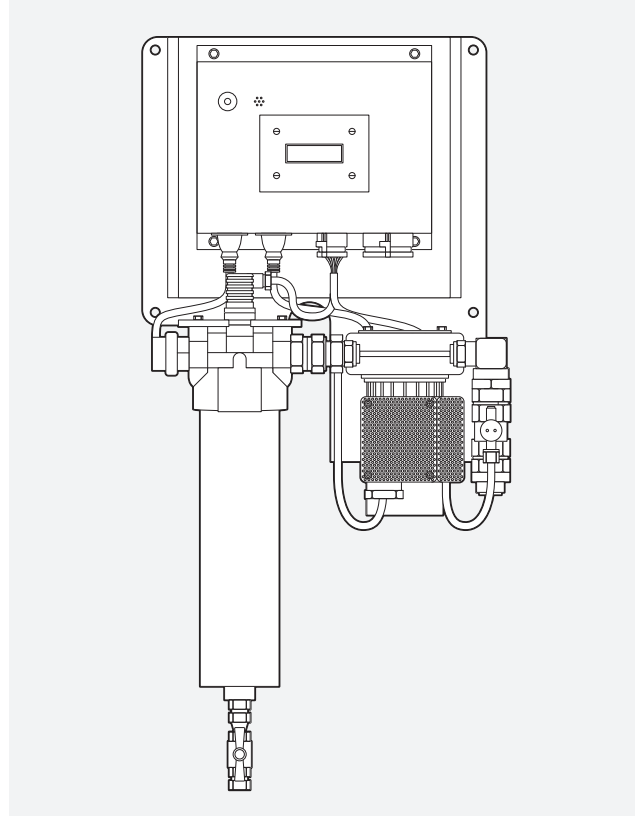
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EKO SYSTEM



TECHNICAL DATA

SYSTEM	
Dimensions (H) x (W) x (D)	930mm x 445mm x 217mm
Weight	31kg
Operating Conditions	-20°C to +60°C
Environment	Control Box IP44
Connections	1" BSPP Male Coned Inlet & Outlet
FILTRATION	
Fluid Compatability	Diesel & mineral oils
Media	Particulate - 1, 3, 5, 10 or 25 Micron & Water
Filter Blocked Indicator	Electronic via Control Panel LED
ELECTRICAL	
Voltage	230 VAC (±10%)
Nominal Frequency	50Hz
Nominal Motor Current	3.5A
Motor Protection	Automatic Thermal Protection Switch
PUMP	
Flow	50 litres per minute
Type	Self-Priming Vane
Duty Cycle	Continuous
Noise Level	<85dB @ 1 Metre



TRUSTED KNOWLEDGE. TAILORED SOLUTIONS.

How well you understand a problem defines how well you solve it. Speak to an IPU technical specialist about fuel polishing and, after asking some astute questions, they'll provide a tailored solution you can trust - backed by years of industry experience and engine know-how.



More details at www.ipu.co.uk

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